



Ministry  
of Defence



Defence Equipment & Support

**WARPAINT**

**Issue 44**  
MARCH 2019



Equipping and Supporting our Armed Forces

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**The information on acceptable paint systems / coatings, given in this publication, updates BR3939 Issue 4 - February 2017.**

## INTRODUCTION

1. WARPAINT is the main guidance document of acceptable paint coatings for all in-service and new-build Royal Naval Vessels. It is to be read in conjunction with BR3939 Hull Preservation Processes.
2. WARPAINT offers guidance on the various approved Commercial Off The Shelf (COTS) protective coatings that have been assessed for their health and safety, fire characteristics and suitability when applied to various areas of Royal Naval Vessels IAW BR3939 Issue 4 February 2017.
3. WARPAINT is released biannually in March & September. It is used to disseminate changes to MoD policy or guidance in between major updates of BR 3939 or any of the other paint related Defence Standards.
4. Not all approved coatings are necessarily listed in WARPAINT as paint manufacturers are constantly striving to improve their current paint systems. Consequently, the Whole Ship Specifications (WSS) / Annexes are regularly updated. Should a coating therefore be proposed, which is not listed in the current issue of WARPAINT, confirmation of acceptance must be obtained from DES SHIPS WSpt CET Husbandry.
5. All paint coatings listed in the annexes are to be applied strictly in accordance with their respective Product / Technical Data Sheets (PDS / TDS), Material Safety Data Sheets (MSDS) and Instructions. This includes all aspects of the preparation stage and post application. TDS's define a Paint Specification that must be followed in conjunction with the data sheets. Full Quality Control (QC) data must be recorded to provide assurance and evidence that the specification has been satisfactorily achieved IAW BR 3939.
6. WARPAINT is only available electronically. The easiest way to obtain an e-copy is via the internet or intranet. From here it can be easily downloaded. Links to access these websites is detailed below:
  - a. Intranet - <https://modgovuk.sharepoint.com/Domains/ShipWARPAINT>
  - b. Internet at: <https://www.gov.uk/government/publications/warpaint>

## AMENDMENTS TO ISSUE 43

7. Front Cover: The front cover has been updated with a photo of T23 Frigate at sea with a Merlin Helicopter in the back ground.
8. Annexes A, B, C, F, H & K have been reviewed and updated to align with manufacturers data sheets.
9. RNHHD, Design, Design & VOC Compliant Coating Systems sections updated.
10. Paint and preservation hot topics section updated to detail ongoing work in the area.

**WARPAINT APPROVAL PROCESS**

- 11. Paint coatings on all RN surface ships and submarines are to be WARPAINT compliant. Figure 1 details the process for product inclusion in WARPAINT.
- 12. All requests for approval are to be sent to [DES SHIPS WSpt-CET-Husbandry](#). Requests are to include the Product/Technical Data Sheets, Material Safety Data Sheets, application instructions and where the paint is to be used or which paint it will be replacing.

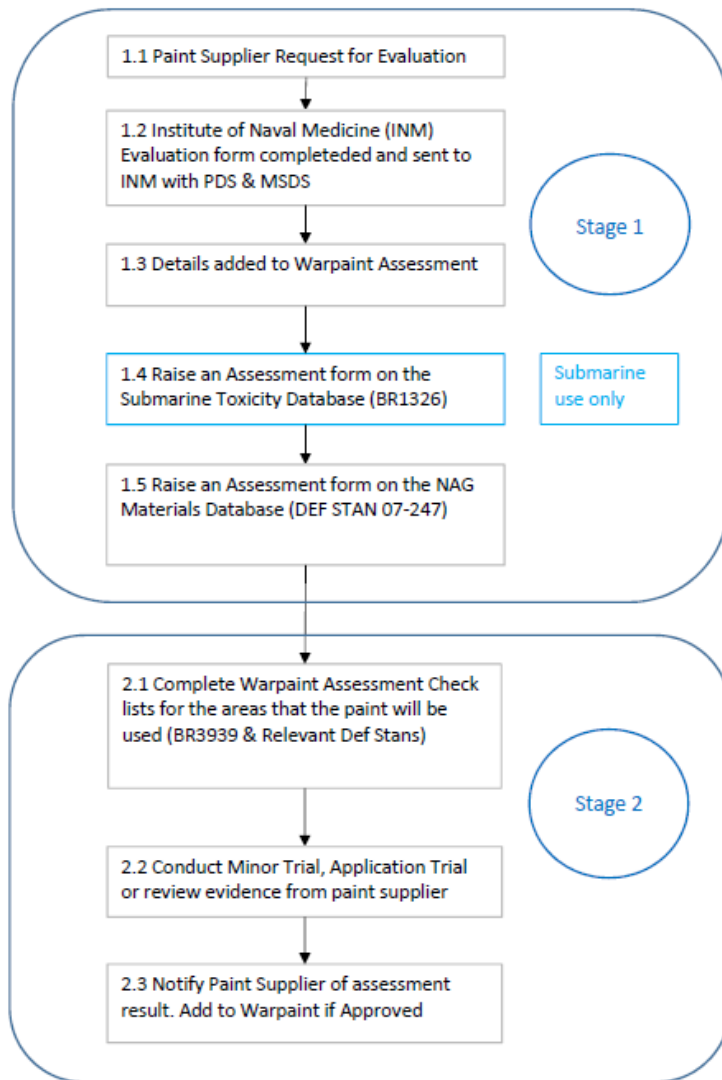
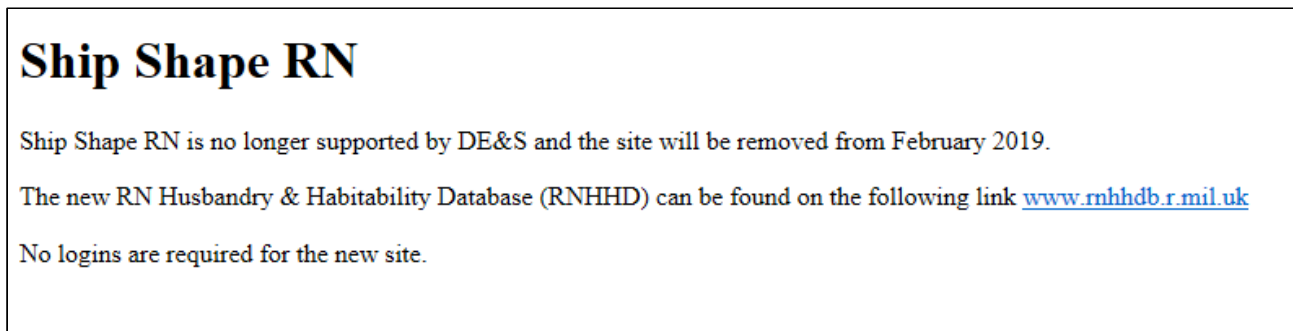


Figure 1-1 Warpaint Approval Process

- 13. In line with Naval Authority Group (NAG) Policy all paints will be reassessed every 3 years to ensure they still meet the requirements.

**RN HUSBANDRY HABITABILITY DATABASE (RNHHD)**

14. Access to Ship Shape RN has now been removed and has been replaced with the following message.



*Figure 1-2 Ship shape RN Website message*

15. The new database is located on the RLI network and can be found at [www.rnhhdb.r.mil.uk](http://www.rnhhdb.r.mil.uk) log ins are not required. The user interface has been updated and is compatible with all modern browsers. Some of the enhancements have been to make it easier to navigate through the database and to improve the functionality of the search tool. The toolset is General Data Protection Records (GDPR) compliant and is undergoing MOD accreditation.
16. A new release of RNHHD will be rolled out in April. This will include a link to the Naval Authority Group (NAG) Non-Metallic Materials Database. The link allows RNHHD to pull across the material category and includes a clickable link to the NAG database where detailed information on the materials fire and toxicity information can be found.
17. The sore thumbs section of RNHHD has also been updated to allow ships company to raise issues and upload documents and photos of the problem. All users are encouraged to use this function so that issues can be captured and actioned.

**DESIGN**

18. During the design phase of a vessel either in build or in service it is essential that engineers are aware of the impact of corrosion and to use best practice when designing new structures and systems. A good guide for engineers is the Marine Paint forums "[Guidance information on design for preservation and corrosion control for steel hulled vessels](#)". Membership of the Marine Paint Forum is made up of the Paint Suppliers, Paint Applicators, MoD, Consultants & UK Shipyards.
19. Ministry of Defence Ship Acquisition and in-service platform teams should refer to the following documents in line with Knowledge in Defence (KiD) when specifying paint requirements.
- Def Stan 21-005 Code of Practice for Protective Finishes
  - BR 3939 Hull Processes
  - Warpaint

**DESIGN TARGET LIFE OF COATINGS**

20. In support of BR3939 the current design target life of the various coatings to be applied to Royal Naval Vessels are as follows:

Description	Design Life
Holding Primer	6 Months
Hull Primer	10 Years
Anti-Fouling	5 Years
Anti-Fouling Foul Release	6 Years
Internal Primer	25 Years
Internal Finish	5 Years
External Finish	3 Years
Tank Coatings	15 Years
Bilges (Zinc metal sprayed)	25 Years

Table 1-1 Design Target Life of Coatings

21. Where Bilges are not zinc metal sprayed, every effort is made to meet the 25-year design life using alternative approved coatings.

**THE 4 STAGES OF CORROSION**

22. The table below is to assist surveyors to categorise the level of corrosion that has been identified through routine survey.

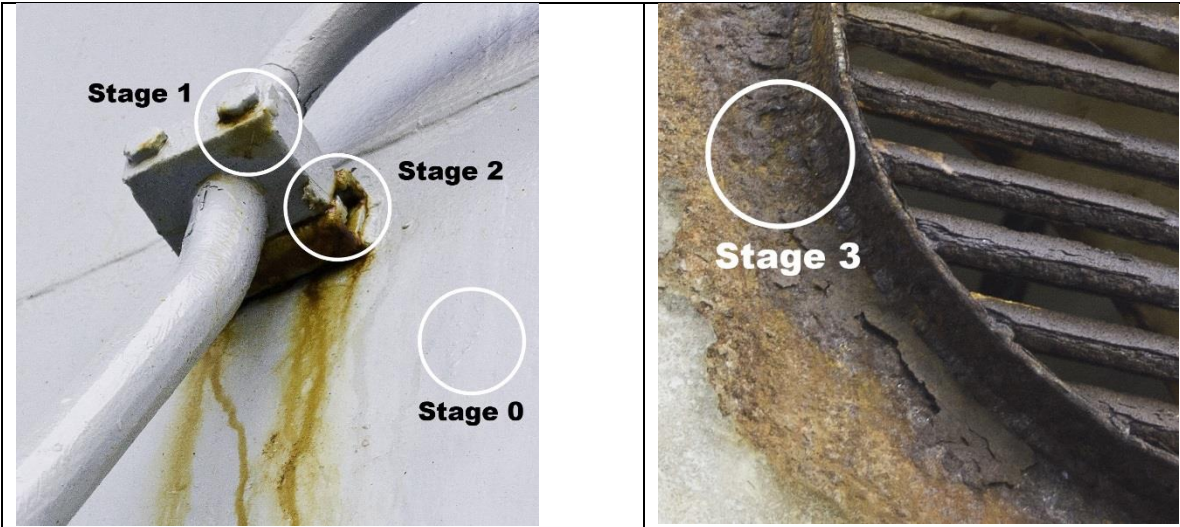
	
<b>Stage 0</b>	No visible signs of corrosion. No indications of paint system defects. No visible sign of oxidation products.
<b>Stage 1</b>	General surface corrosion is visible. Small blisters or cracks in the paint coating. Red / Orange rust staining becoming evident & deposits from water run-offs developing.
<b>Stage 2</b>	Heavy corrosion is visible. Severe blister or cracking in the paint coating. Prominent rust staining is now visible with medium to heavy deposits from water run-offs.
<b>Stage 3</b>	Severe corrosion has resulted in visible metal loss at the point of attack to the point that structural integrity may have been compromised. Very prominent rust staining is visible, with heavy deposits from water run-offs.
<b>Stage 4</b>	Complete perforation of the base metal has occurred, and structural integrity has been lost.

Table 1-2 Stages of Corrosion



## QUALITY

23. Quality is an important aspect to painting and cannot be underestimated. It is paramount that robust processes are in place and adhered to. BR3939 Issue 4 Section 14 Quality Assurance & Quality Control outlines the variable check points in the process and the qualification level of the paint inspectors.
24. At the completion of any work undertaken on surface ships copies of the paint specification and QC data is to be forwarded to [DES SHIPS WSpt CET Husbandry](#) for information.

## PAINTING AND PRESERVATION HOT TOPICS

25. Relevant news stories, direct questions on approved coatings or paint systems and all matters regarding preparation standards, NATO stock numbers and MOD(N) Paint Policy can be directed to [DES SHIPS WSpt-CET-Husbandry](#) alternatively telephone 030 679 35047.

## MILL SCALE

26. Mill scale issues are increasingly being reported by new build and in-service projects. DE&S will be conducting an audit to fully understand the issue and will report the findings in the next issue of warpaint.
27. Mill scale is an iron oxide layer that forms when steel is manufactured, during hot rolling. It is generally between 25-100  $\mu\text{m}$  thick, can be tightly or loosely bonded to a steel surface, and is more noble than mild steel. Because mill scale is more noble than steel, galvanic corrosion of mild steel in preference to mill scale will occur when exposed to seawater. Mill scale can also cause adhesion problems, as loosely bonded mill scale may flake away, taking the primer with it. To avoid adhesion issues and corrosion of steel, **all visible mill scale should be removed** prior to priming. The photos below show 2 different rust grades. The pictures and the descriptions of rust grades are taken from BS EN ISO 8501-1:



*Figure 1.3 Rust Grade A*

Rust grade A – Steel surface largely covered with adhering mill scale but little, if any, rust.



*Figure 1.4 Rust Grade B*

Rust grade B – Steel surface which has begun to rust and from which the mill scale has begun to flake

**NEEDLE GUNS**

28. The use of needle guns is prohibited and has been for many years now as far back as issue 23 September 2006. Needle guns although effective at removing paint tend to peen the surface which can lead to entrapment of corrosion and other contaminants which leads to the premature failure of coatings. There is also the HSE issue with regards to Hand Arm Vibration Syndrome (HAVS). No ships should have needle guns onboard.

**CHROMATE PAINTS**

29. The use of paints with chromate pigments have now been banned in accordance with REACH. The sunset date for use of these substances was January 2019. The use of chromate pigments has been banned from warships and submarines since the very 1<sup>st</sup> issue of Warpaint back in 1994. There is still the possibility of zinc chromate primers being present in the early T23 Class and some other older vessels. Chromate primers may also be present on OEM equipment.
30. Chromate paints in their cured state do not present a health and safety issue. However, if the primers are disturbed they can release dust particles that are carcinogenic. The most likely occurrence of this happening is during re-preservation either during hot work or where the paint needs to be removed.
31. It is possible to effect small-scale repairs to coatings by using paint remover rather than abrasive methods. However, for large-scale removals full precautions should be taken, including the use of PPE, containment and appropriate ventilation. Environmental warning signs should be posted.
32. These precautions should be taken if the presence of chromate primer is known or suspected. If the exact nature of the primer is unknown, and cannot be traced through records, then it must be assumed that the presence of chromate is likely and full protective precautions should be undertaken.
33. For guidance see HSE Information Sheet on Chromate Primers Engineering Sheet No 32.

**PROHIBITED COATINGS**

34. To clarify the Institute of Naval Medicine (INM) have advised in the past that the use of coatings containing, or based on the following, represent a significant health and safety risk:
- Lead based pigments
  - Chromate based pigments
  - Bitumen
  - Coal Tar
  - Chlorinated Rubber
  - Isocyanates

Therefore, IAW BR3939 Section 3 material requirements coatings containing these substances are prohibited for use on UK Warships or Submarines.

## RUST/STAIN REMOVERS

35. International Interplus 614 is currently the only approved product for removing rust stains. No other products are to be used. Stain removers can have an effect on the life expectancy coatings and therefore is to be used sparingly and only once the initial corrosion issue has been rectified.

## SHIPS RESPONSIBILITY FOR PAINT REPAIRS

36. Ships Company are responsible for paint repairs of up to 1m<sup>2</sup>, referring to BR3939 for specialist information, and utilise Preservation Application & Work Instruction Forms (PAWIF). A robust Ship Husbandry management organisation IAW BR2203 (Ship Husbandry) is a necessity to enable the smooth running and planning of all Ship Husbandry activities. These responsibilities are Fleet wide, and across all classes of vessels.

Note: Platforms running with the CLS / CFA contracts are required to liaise with their respective Platform Managers for approval before any preservation work is carried out.

37. Mixing of Paint Systems & Use of Corroless QDR Primer
- a. The mixing of different supplier's coatings in any given paint system is prohibited. If it becomes essential, then it will only be permitted with the written approval of the relevant MOD Platform Project Group.
  - b. ***Corroless QDR primer is ONLY to be used for emergency repairs***, for example; when a vessel must sail and welding of items has only just been completed or; there is insufficient time to apply the full WARPAINT specified paint system. Not more than 2 x 5 litre packs are to be carried onboard surface ships (Not to be carried onboard Submarines) and **general usage is forbidden**.

## HUSBANDRY - CURRENT WORK

38. There are still a large number of paints currently being assessed for inclusion in to WARPAINT as well as the reassessment of the current products IAW NAG policy.
39. Minor trial for temporary holding paints was put on hold for the past few months because of other priorities. This trial is sponsored by Navy Command and is to provide a range of paints that can be easily used by ships staff to prevent further corrosion whilst on deployment.
40. Supporting Navy Command in providing a new maritime anti-corrosion kit that can be deployed to each platform.
41. Configuration Control of paint Material State on all surface ship vessels. A standard excel template has been agreed and is being populated for each class. This contains information including the paint coatings used in each area of every platform, as well as additional pertinent information including recent work that has been carried out with causation. Future work will concentrate on an online central database. The first stage is to write the Scope of Work and requirements documentation.
42. BR3939 is undergoing a full re-write and will be released by the next issue of Warpaint.

43. Raise requests for NSN Codification of paints that are approved but have not been codified.
44. Populate RN Husbandry & Habitability Database (RNHHD) with the correct information and documents for each product.

### VOC COMPLIANT COATING SYSTEMS

45. EU Legislation changed the way VOC emissions are recorded. Notwithstanding this, there remains a MOD requirement for low VOC materials. Based on the guidance table below, Paint Manufacturers and Suppliers are reminded that any formulation changes to their existing products must be advised. They will then be required to provide the Institute of Naval Medicine (INM) with full product formulation data, on request. Failure to do so will automatically result in the withdrawal of MOD(N) acceptance. INM forms can be provided on request and any submissions must go through [DES SHIPS WSpt CET Husbandry](#).
46. MOD(N) requires that paint manufacturers and suppliers quote VOC levels in accordance with CEN or ISO Standards.
47. The MOD(N) maximum VOC target levels are shown in the following table and both paint manufacturers and applicators are encouraged to propose/apply coatings which at least meet or are lower than these target levels.

Category No.	Category	VOC limit – gms/litre, Paint less Water
(i)	Blast/Weldable Primer*	600
(ii)	Tie-coats/sealers	55
(iii)	General primer/undercoat	200
(iv)	External Finishes	420
(v)	Internal Finishes	200
(vi)	Anti-Fouling <sup>#</sup>	400
(vii)	AFFF Tanks	390
(viii)	Demineralised Water Tanks	390
(ix)	AVCAT, Dieso & Hydraulic Oil Tanks	390
(x)	All other tank coating systems inc. cofferdams, engine room bilges & chain lockers	300
(xi)	Marine Varnish	530

Table 1-3 VOC Levels

\*Blast or holding primers are typically applied to a specified thickness of 25 - 40 micrometres and are not considered to be weldable. Shop primers, or weldable primers, are applied by automatic spray, typically to a dft of 15 - 25 micrometres. It is recommended that the primer is removed before welding unless the user can demonstrate that the presence of the material does not affect

weld integrity. This is particularly important where high strength steels, such as QN1, QN2, HY80 etc, with susceptibility to hydrogen cracking, are used. In all cases, the end user must establish whether the condition of supply of the coated steel substrate is suitable for their specific welding process conditions.

#The balance between VOC level and toxic content (should there be any) will be assessed. It may prove necessary to accept a higher VOC material if the lower toxic content outweighs the release of VOC.

48. For the benefit of New-Building Specifications ONLY, if a paint system can offer cost benefits but one part of it has a VOC level higher than the MOD(N) target value. This part of the scheme could be proposed on the assumption that it will be subsequently submitted for approval and inclusion in WARPAINT. In this instance, data will be required supporting the case, including a statement that the total VOCs to be emitted during application, will be equal to or less than when applying a paint scheme fully in accordance with the MOD(N) target values.

## SUBMARINE SPECIFICATIONS

49. Acceptable paint specifications are outlined in Annex J, together with a list of other acceptable materials.
50. [SDA-IS-NavArch3b](#) Tel. No. 030 679 33221, is the Structures & Coatings POC for In-Service Submarines.
51. [SDA-F-HullOutf1b](#) Tel. No. 030 679 85569, is the Structures & Coatings POC for Future Submarines.
52. [SDA-P-ENG-NA-Con3](#) Tel. No. 030 679 36626, is the Structures & Coatings POC for Astute Class.
53. [SDA-P-ENG-SP1](#), Tel. 030 679 30168, is the Annex J area S28 Lilo/Payload Bay Chamber POC.
54. BR1326 Classification can be found in the 'Submarine Material Toxicity Database' located here - <http://www.tes-ssg-smt.d.r.mil.uk/>. DES NAG-SM-SafTOX is the sponsor of the hazard assessment process in line with the requirements set for submarine atmosphere control – This process is documented in BR1326 Chapter 6. DES NAG-SM-SafTOX has the responsibility for assessing materials for internal submarine use. Enquiries regarding material assessments should therefore in the first instance be directed to [DES NAG-SM-SafTOX](#) at MOD Abbeywood South, Bristol, BS34 8JH. Tel. 030 679 35045.
55. In-Service Submarines then have to be contacted and provide a risk assessment to the whole boat, and Clearance For Use (CFU) of a product (This is for Vanguard, Trafalgar, and Astute classes). CFU is obtained through the nominated ISM Platform Safety Co-ordinator, SDA-IS-A-WS1b Tel. 030 679 85097.

56. Not all of the Astute class has been adopted by in service submarines so Clearance For Use can be sought from the Design Authority – BAE systems.

Engineering Manager Non-Metallic Materials

BAE SYSTEMS - Submarine Solutions

Phone: 01229 873380 x3380

Email: [rachel.eastham@baesystems.r.mil.uk](mailto:rachel.eastham@baesystems.r.mil.uk)

## WHOLE SHIP SPECIFICATIONS

57. The Whole Ship Specifications were submitted by seven major marine paint manufacturers / suppliers and are detailed in their respective annexes to this document. **All** of these companies must be approached when tendering on a new build project to conform to EU competitive law and to achieve VFM for the tax payer. It is considered advantageous to choose more than one company for an entire Class of RN vessel in order to engage more across all seven companies and put their differing products/technologies into service. New build paint specifications are no longer separately included as they so closely mirror refit, maintenance and repair.
- a. Submarine Systems Annex J does not use a Whole Boat Specification allowing freedom to use the most durable product from a multitude of companies. However, this does not prevent a Whole Boat Specification being presented and accepted.
  - b. The differing paint manufacturers 'Whole Ship Specification' annexes are listed in alphabetical order and it is important to first determine your current paint supplier before ordering any specific coating. For example; there have been instances where coatings manufactured by Chugoku Paints (UK) Ltd have been ordered, simply because they are listed first (alphabetically) in the annexes.
  - c. The paint specifications in the annexes are the recommendations of the respective paint manufacturers. They are based on performance requirements, VOC and health and safety criteria of MOD(N). They are not specifications prescribed by MOD(N) and their fitness for purpose remains the responsibility of the paint manufacturer.
58. Items in the tables highlighted with a **grey band** do not fully meet MOD(N) criteria and are not to be used without prior confirmation from the relevant Platform Project Group. A number of these items may have obtained approval prior to the next issue of WARPAINT and readers should always check their current approval status before applying.
59. To ensure that vessels allocated under the Whole Ship Specification concept receive paints from the selected supplier, their specific materials have been codified where necessary.
60. Tables
- a. These include Nominal Dry Film Thickness (NDFT) per coat in micrometres ( $\mu\text{m}$ ), as well as both the minimum and maximum recoat intervals. The figures quoted are meant for guidance only. The manufacturers product data sheet should always be consulted.

- b. VOC grams per litre in the table highlighted thus in a box; do not comply with MoD VOC emission target levels.
- c. Items with a '?' appearing in the boxes, indicate that manufacturer/supplier information is awaited.
- d. Annexes are listed in alphabetical order as follows: -
- |   |         |
|---|---------|
| Chugoku Paints (UK) Ltd                       | Annex B |
| Hempel Paints Ltd                             | Annex C |
| International Paint Ltd                       | Annex D |
| Jotun Paints (Europe) Ltd                     | Annex E |
| Maker Coating Systems Ltd                     | Annex F |
| PPG Protective & Marine Coatings (Sigma)      | Annex G |
| Sherwin Williams Protective & Marine Coatings | Annex H |
- e. BR1326 – In the Specialist Coatings table 'N/A' depicts either not for use on Submarines or only assessed to be used on Submarines externally to the pressure hull.
- f. In annex J where a coating has the designation EXT in the BR1326 column it means that the coating has not been assessed and can only be used externally to the pressure hull.
- g. Breathable atmosphere (Axxxx) reference numbers are taken from the Submarine Material Toxicity Database discussed in paragraph 45.

#### 61. LCUs and LCVP's

- a. In general, LCU's and LCVP's follow the Whole Ship Specifications except for Above Water Hull coatings where Chemical Agent Resistant Coatings (CARC) and Infra-Red Resistant coatings (IRR) are specified. For advice, review of proposed Paint Specifications and queries in relation to these vessels contact [DES Ships WSpt-CET-Husbandry](#) or [DESShipsWSpt-Amph-LC-TLM](#).

### **SPECIALIST COATINGS & PAINT REMOVERS**

62. "WHOLE SHIP SPECIFICATIONS" & "SUBMARINE SYSTEMS" Annexes do not cover Specialist areas. Specialist coatings & their location of use can be found in Annex A.

#### 63. Cleaning Materials and Rust Removers

- a. DES Ships WSpt-CET-Husbandry is the Ship Husbandry (inc. Paint) & Habitability desk officer. All enquiries regarding cleaning materials and rust removers should be emailed to [DES SHIPS WSpt-CET-Husbandry](#) alternatively telephone 030 679 35047.

- b. BR2203 Ship Husbandry Manual dated Feb 2015 is now available on DII -  
<http://defenceintranet.diif.r.mil.uk/Organisations/Orgs/Navy/Organisations/Orgs/DRes/HdCOMMS/Pages/BRs2000-2999.aspx>

64. Specialist Coatings Suppliers Contact Details:

<b>Superspeed 52</b>	H Marcel Guest	Tel 01612 057631
<b>Coppercoat</b>	Aquarius Marine Coatings Ltd	Tel 01258 861059
<b>Limpetite</b>	Bristol Metal Spraying & PC Ltd	Tel 01179 662206
<b>BIOFIX 561LT</b>	Maker Coating Systems Ltd	Tel 01392 822600
<b>Interzone 101</b>	International Paints	Tel 01489 775060
<b>Alocit &amp; Enviropeel</b>	A&E Group	Tel 01362 694915
<b>Chemi-Tech UW</b>	Thortex Ltd	Tel 01609 780170
<b>MMP Repairite</b>	MMP International	Tel 08704 587781
<b>Belzona</b>	Belzona Polymerics Ltd	Tel 01423 567641
<b>S*59</b>	Trimite	Tel 01895 201444
<b>IP3-6***</b>	Indestructible Paint	Tel 01217 022485
<b>Zinga</b>	Maker Coating Systems Ltd	Tel 01392 822600
<b>Gummipaint-Orange</b>	Maker Coating Systems Ltd	Tel 01392 822600
<b>Back to Nature VIII</b>	N A Robson Ltd	Tel 01253 393406
<b>Sea to Sky SPC-203</b>	Maker Coating Systems Ltd	Tel 01392 822600
<b>Corroglass &amp; Polyglass</b>	Corrocoat Ltd	Tel 01132 760760
<b>Kansai &amp; ARC</b>	Cactus Industrial Ltd	Tel 01698 591635
<b>RapidShield</b>	Quaker Chemical Ltd	Tel 01453 820800



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**ANNEX A  
SPECIALIST COATINGS & PAINT REMOVERS**

Specialist Systems/Materials	Generic Type	VOC gms per ltr	NATO Stock Number	BR1326
<b><u>ANTIFOULING FOR "ARCHER" CLASS &amp; YACHTS</u></b>				
SUPERSPEED 52	Anti-Fouling	411		N/A
COPPER COAT	Anti-Fouling	0		N/A
<b><u>RUDDER, STABILISERS &amp; "A" FRAMES</u></b>				
Corrosion, Erosion & Cavitation Protection [Limpetite products use a proprietary Primer/Tie Coat system]				
LIMPETITE A3 (Multiple coat system – durable – high adhesion)	Liquid Synthetic Rubber	433		N/A
LIMPETITE PRC (Single coat spray applied – not as durable – low adhesion)	Liquid Rubber/ Polyurethane	0		N/A
BELZONA 1311 Ceramic R-Metal (Fill and fair)	Epoxy	0	99-598-6837	N/A
BELZONA 1341 Supermetalgilde (Cavitation protection)  (2 coats. 3 coats if blasting prior to application of anti-foul)	Epoxy	5	99-322-3979	N/A
<b><u>HULL (Underwater-Applied Coatings) GENERAL REPAIR</u></b>				
ALOCIT 28.15	Epoxy	0	99-248-4702	N/A
BIOFIX 561 LT Black – Kevlar reinforced	Epoxy	0	99-133-9985	N/A
BELZONA 5831	Epoxy	0		N/A
INTERZONE 101 Trowel Grade – WARNING: Contains Silica	Epoxy	0		N/A
KANSAI SURESEAL 1208UWE	Epoxy Mastic	0		N/A
<b><u>HULL – LINK COATS FOR FOUL RELEASE PAINT</u></b>				
<b><u>Hempel Paints Ltd</u></b>				
HEMPASIL NEXUS X-Seal 27600	Silicone	400		N/A
<b><u>International Paints Ltd</u></b>				
Link Coat for INTERSLEEK 737: INTERSLEEK 7180	Silicone	376	99-593-3810	N/A

**ANNEX A  
SPECIALIST COATINGS & PAINT REMOVERS**

Specialist Systems/Materials	Generic Type	VOC gms per ltr	NATO Stock Number	BR1326
<b><u>HPSW INTERNAL COATING FOR INTAKE PIPEWORK</u></b>				
Belzona 1341	Epoxy	5	99-322-3979	
Corroless RF35 Grey	Glass Flake Epoxy	93	99-337-0778	BLI (A1772)
LIMPETITE A3 (Multiple coat system – slower application)	Liquid Synthetic Rubber	433		N/A
<b><u>PEELABLE CORROSION-INHIBITING ENCAPSULATING MEMBRANE</u></b>				
<b><u>A&amp;E Group</u></b>				
Enviropeel (External/Weather deck applications only. Not for internal use.)	Thermoplastic	0		N/A
<b><u>Belzona</u></b>				
Belzona 8411 / 3411 (includes approval for limited internal use)	Hybrid Polymer	0		8411 BLI (A6633) 3411 BLI (A6634 & A6635)
<b><u>SEAWATER BALLAST TANK SPOT REPAIR</u></b>				
<b><u>Chugoku</u></b>				
NOVA Barrier 5000 (Surface tolerant – High build – Fast cure)	MIO Epoxy	0	TBC	TBC
<b><u>FLIGHT DECK / DECK MARKINGS</u></b>				
<b><u>Chugoku Paints (UK) Ltd</u></b>				
521E0020 Type 1 White	Epoxy	374	99-541-9583	N/A
521E0013 Type 1 Black	Epoxy	374	99-543-0790	N/A
521E2947 Type 1 Red	Epoxy	374	99-543-0793	N/A
521E0013 Type 1 Green	Epoxy	374	99-543-0791	N/A

**ANNEX A  
SPECIALIST COATINGS & PAINT REMOVERS**

Specialist Systems/Materials	Generic Type	VOC gms per ltr	NATO Stock Number	BR1326
<b><u>Hempel Paints Ltd</u></b>				
HEMPELS DECK MARKING 453GB White	Epoxy	347	99-323-1118	N/A
HEMPELS DECK MARKING 453GB Black	Epoxy	347	99-351-4222	N/A
HEMPELS DECK MARKING 453GB Red BS381C 537	Epoxy	347	99-724-9085	N/A
HEMPELS DECK MARKING 453GB Green BS381C 225	Epoxy	347	99-986-6762	N/A
<b><u>International Paints Ltd</u></b> Use 852 for Flight Deck Markings – Annex H				
INTERGARD 740 White	Epoxy	420	99-773-8674	N/A
INTERGARD 740 Black	Epoxy	420	99-488-7443	N/A
INTERGARD 740 Red	Epoxy	420	99-377-5457	N/A
INTERGARD 740 Green	Epoxy	420	99-262-7677	N/A
INTERGARD 740 Yellow	Epoxy	420	99-969-1037	N/A
<b><u>Sherwin-Williams Protective &amp; Marine Coatings</u></b>				
EPIDEK M377 White	Epoxy	330	99-777-8690	N/A
EPIDEK M377 Black	Epoxy	330	99-777-8692	N/A
EPIDEK M377 Green	Epoxy	330	99-777-8691	N/A
<b><u>LCU &amp; LVCP – CARC &amp; IRR A/W HULL FINISH</u></b>				
Def Stan 80-208 approved coating – applied over Intergard 5000				
<b><u>Trimite</u></b>				
D00386 UK Army Brown	Polyurethane	TBC	TBC	N/A
D00341 Matt Black	Polyurethane	TBC	TBC	N/A



**ANNEX A  
SPECIALIST COATINGS & PAINT REMOVERS**

Specialist Systems/Materials	Generic Type	VOC gms per ltr	NATO Stock Number	BR1326
INTERZINC 72  <b><u>PPG Protective &amp; Marine Coatings</u></b>	Zinc Epoxy	410		B (Cl, A1593)
SIGMAZINC 19  <b><u>Sherwin-Williams Protective &amp; Marine Coatings</u></b>	Zinc Epoxy	584	99-152- 6131	BLI (A4968)
Zinc Clad® J984BS	Zinc Epoxy	331		N/A
<b><u>WOODWORK</u></b> (High gloss, Clear, Protective finish)				
<b><u>Chugoku Paints Ltd</u></b>				
SPAR VARNISH	Varnish	433		N/A
<b><u>Hempel Paints Ltd</u></b>				
HEMPEL'S MARINE VARNISH 022220 (prev. 022GB)	Alkyd	430	99-224- 5783	N/A
<b><u>International Paint Ltd</u></b>				
INTERLAC 678	Alkyd	373	99-328- 9646	BLI (A2107)
<b><u>Jotun Paints (Europe) Limited</u></b>				
SPONTAN VARNISH	Urethane Alkyd	470	99-161- 6220	N/A
<b><u>PPG Protective &amp; Marine Coatings</u></b>				
SIGMAVAR GLOSS 8103	Phenolic	393		N/A
<b><u>Quaker Chemical Ltd</u></b>				
RapidShield 0007-2 (Pending INM assessment)	UV Cured Polymer	0		
<b><u>CORROSION INHIBITOR GREASE</u></b>				
CORROLESS CCI 355	HD Grease	N/A	99-676- 5736	G (A2738)
<b><u>CONDUCTIVE GLANDS</u></b> (QEC requirement)				
<b><u>Parker Chomerics</u></b>				
Cho-shield 610	Copper Epoxy EMI	591	N/A	N/A

**ANNEX A  
SPECIALIST COATINGS & PAINT REMOVERS**

Specialist Systems/Materials	Generic Type	VOC gms per ltr	NATO Stock Number	BR1326
<b><u>HEAT RESISTANT COATINGS (Below 175°C)</u></b>				
<b><u>PPG Protective &amp; Marine Coatings</u></b>				
SIGMATHERM 175	Modified Alkyd	561	-	BLI (A4080)
<b><u>International Paint Ltd (up to 250 °C)</u></b>				
INTERTHERM 891	Oleoresinous Aluminium	425	-	BLI (A2104)
<b><u>HEAT RESISTANT COATINGS (Above 250°C)</u></b>				
<b><u>Hempel Paints Ltd</u></b>				
HEMPEL'S GALVOSIL 15700	Zinc Silicate	435	99-593-8923	BLI (A1982)
<b><u>International Paint Ltd</u></b>				
INTERTHERM 50	Aluminium Pigmented Silicone Resin	495		BLI (A3498)
<b><u>PPG Protective &amp; Marine Coatings</u></b>				
SIGMATHERM 500	Modified Alkyd	600		BLI (A4072)
<b><u>Sherwin-Williams Protective &amp; Marine Coatings</u></b>				
Zinc-Clad II EU (Previously Dox Anode D5V2)	Zinc Silicate	470		N/A
<b><u>HEAT RESISTANT COATINGS (Above 400°C)</u></b>				
<b><u>Hempel Paints Ltd</u></b>				
HEMPEL'S SILICONE ALUMINIUM 56910	Polysiloxane	585		W (A1916)
<b><u>International Paint Ltd</u></b>				
INTERTHERM 50	Silicone Aluminium	495	99-969-0549	BLI (A3501)
<b><u>PPG Protective &amp; Marine Coatings</u></b>				
SIGMATHERM 500	Modified Alkyd	600		BLI (A4072)

**ANNEX A  
SPECIALIST COATINGS & PAINT REMOVERS**

Specialist Systems/Materials	Generic Type	VOC gms per ltr	NATO Stock Number	BR1326
<p><b><u>SYSTEM FOR COATING NATURAL RUBBER MOUNTS</u></b> <i>Applied by Mount OEM. Not to be touched up once fitted.</i></p> <p><b><u>Maker Coating Systems Ltd</u></b></p> <p>GUMMIPAINT – Orange &amp; Black</p>	Single Pack		TBC	BLI (A3672)
<p><b><u>PAINT REMOVER</u></b></p> <p><b><u>N A Robson Ltd</u></b></p> <p>BACK TO NATURE VIII</p> <p><b><u>International Paints Ltd</u></b></p> <p>INTERPLUS 634</p> <p><b><u>Maker Coating Systems Ltd</u></b></p> <p>SEA TO SKY SPC-203</p>	Biodegradable	N/A	99-361-6273	BLI (A1608)
	Biodegradable	N/A	99-551-8994	CI (A3499)
	Biodegradable	N/A	20-003-3432	CI (A3679)
<p><b><u>RUST STAIN REMOVER</u></b></p> <p><b><u>International Paint Ltd</u></b></p> <p>INTERPLUS 614 (20L – Shelf Life 18 months max)</p> <p>Corrosion source / issue must be rectified before use. 6 - 16hrs dwell time. Cover with Polythene to keep wet. Excessive orders require suitable justification.</p>	Biodegradable	N/A	99-870-1799	N/A
<p><b><u>UNIQUE IMMERSSED AREAS – PUMPS ETC</u></b></p> <p><b><u>Corrocoat Limited</u></b></p> <p>CORROGLASS 202</p> <p>CORROGLASS 232</p> <p>CORROGLASS 602</p> <p>CORROGLASS 632</p> <p>POLYGLASS VE</p>	Polyester Glass Flake			N/A
	Polyester Glass Flake			N/A
	Vinyl Ester Glass Flake			BLI (A1818)
	Vinyl Ester Glass Flake			BLI (A1819)
	Vinyl Ester Glass Vinyl			N/A



**ANNEX A  
SPECIALIST COATINGS & PAINT REMOVERS**

Specialist Systems/Materials	Generic Type	VOC gms per ltr	NATO Stock Number	BR1326
POLYGLASS VE HAND APPLIED	Ester Glass Flake			
POLYGLASS VEF	Vinyl Ester Glass Flake			N/A
POLYGLASS ZIPCOAT	Vinyl Ester Glass Flake			N/A
CORROCOAT ZIP E	Polyester Glass Flake			N/A
	Glass Flake Epoxy			N/A

\*Advance BR1326 assessment from INM. Full request via SMTD required.

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**ANNEX B**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**CHUGOKU PAINTS (UK) LTD**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<b><u>A &amp; B. BELOW WATER HULL PRIMER</u></b>							
Standard: BANNOH 1500	1	150	4.87	9 hrs	120 days	286	
Alternative: UMEGUARD HS SILVER	1	150	5.93	20 hrs	7 days	158	
Tie-coat (for C, E & F): BANNOH 1500 SZ	1	100	6.4	10 hrs	5 days	333	
<b><u>C. ANTIFOULING FINISH (Self Polishing – SPC)</u></b>							
SEA GRANDPRIX 1000L silyl hydrolysis	2	150	3.4	5 hrs	#	408	
<b><u>D. ANTIFOULING SYSTEM (Foul Release – FRC 5+ yr life)</u></b>							
CMP BIOCLEAN SG R	1	125	4.86	20 hrs	#	406	
CMP BIOCLEAN R	1	100	6.5	4 hrs	24 hrs	325	
CMP BIOCLEAN HB pure silicon finish	1	150	4.73	#	#	261	
<b><u>Propeller &amp; Rudder:</u></b>							
Etching Primer							
Epicon B100 – Pending INM Assessment	1	70	7.1	3 hrs	5 days	363	
CMP BIOCLEAN SG R	1	100	6	4 hrs	#	406	
CMP BIOCLEAN R single pack silicone finish	1	200	3.3	4 hrs	24 hrs	325	
<b><u>E. ANTIFOULING FINISH (SPC 3+ yr life)</u></b>							
SEA GRANDPRIX 660HS (fusion up to 60 months)	1	150	4.5	5 hrs	#	324	
<b><u>F. BOOTTOP ANTIFOULING FINISH (SPC)</u></b>							
Standard: SEA GRANDPRIX 660 HS (Fusion)	1	150	4.5	5 hrs	#	324	
Alternative: SEA GRANDPRIX 1000L silyl hydrolysis	1	150	3.4	5 hrs	#	408	
<b><u>G &amp; H. ABOVE WATER HULL &amp; SUPERSTRUCTURE &amp; PRIMER</u></b>							
Standard: BANNOH 1500	1	150	4.87	9 hrs	120 days	286	
Alternative: UMEGUARD SX HS GREY Surface Tolerant	1	125	6.16	12 hrs	7 days	232	
Polysiloxane System primer: BANNOH 200 – pending INM assessment	1	125	4.8	10 hrs	7 days	410	
<b><u>J. ABOVE WATER HULL &amp; SUPERSTRUCTURE FINISH</u></b>							
Light Weatherwork Grey BS381C 676							

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**Proposed by**

**CHUGOKU PAINTS (UK) Ltd**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<i>EPICON AE epoxy acrylic – pending INM assessment</i>	1	40	10.75	8	#	570	
<i>KEYSOL polysiloxane – pending INM assessment</i>	1	40	12	5 hrs	7 days	465	
<b><u>K. FLIGHT &amp; WEATHERDECK SYSTEMS – DEF STAN 80-134</u></b>							
Primer: UMEGUARD HS SILVER	1	125	5.93	20 hrs	30 days	158	
<b>(a). Hangar Doors Finish</b> Light Weatherwork Grey BS381C 676  [Factory finished – Interpon 610 – see International Paints WSS]							
<b>(b). Flight &amp; Weatherdeck – Type 2 Non-Skid Finish (coarse)</b>							
CAMIDECK FINISH Type 2 Extra Dark Sea Grey BS381C 640	2	208	2.84	16 hrs	#	374	
CAMIDECK REPAIR KIT Type 2 available to order (2l)							
<b>(c). Hanger &amp; Weatherdeck – Type 1 Non-Skid Finish (fine)</b>							
CAMIDECK FINISH Type 1 Hangar deck: Dark Admiralty Grey BS381C 632 Weatherdeck: Extra Dark Sea Grey BS381C 640	2	190	2.84	16 hrs	#	374	
CAMIDECK REPAIR KIT Type 1 available to order (2l)							
<b>(d). Gloss for Deck Margins:</b> Extra Dark Sea Grey BS381C 640							
UMEGUARD HS GREY	2	75	5.93	20 hrs	7 days	158	
<b><u>L &amp; M. INTERIOR DRY COMPARTMENTS</u></b>							
Primer: BANNOH 1500	1	125	5.84	9 hrs	120 days	286	
<i>Alternative (water based acrylic): IDROMARINA PRIMER – Pending INM assessment</i>	1 or 2	80	4.4	5 days	#	24	
<i>Finish (water based acrylic): IDROMARINA FINISH – pending INM assessment</i>	1 or 2	60	6.66	24 hrs	#	28	
<b><u>N &amp; O. INTERIOR WET COMPARTMENTS</u></b>							
Primer: BANNOH 1500	1	125	5.84	9 hrs	120 days	286	
<i>Standard Finish (water based acrylic): IDROMARINA FINISH – pending INM assessment</i>	1 or 2	60	6.66	24 hrs	#	28	

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**Proposed by**

**CHUGOKU PAINTS (UK) Ltd**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
Ash Grey BS4800 00A01							
<u>Citadel Lobby Finish (water based acrylic): IDROMARINA FINISH – pending INM assessment:</u> Colour either BS480000A01 or Grey BS381C 676	1 or 2	60	6.66	24 hrs	#	28	
<u>Cleansing Stations Finish (water based acrylic): IDROMARINA FINISH – pending INM assessment:</u> White	1 or 2	60	6.66	24 hrs	#	28	
<u>Magazine Finish (water based acrylic): IDROMARINA FINISH – pending INM assessment:</u> BS4800 00A01	1 or 2	60	6.66	24 hrs	#	28	
<b>P. INTERIOR DECKS</b> Green 14C39							
<u>Standard Primer:</u> BANNOH 1500	1	125	5.84	9 hrs	120 days	286	
<u>Alternative (water based acrylic): IDROMARINA PRIMER – Pending INM assessment</u>	1 or 2	80	4.4	5 days	#	24	
<u>Cleansing Stations Primer:</u> BANNOH 1500	1	125	5.84	9 hrs	120 days	286	
<u>Finish (water based acrylic): IDROMARINA FINISH – pending INM assessment</u>	1 or 2	60	6.66	24 hrs	#	28	
<b>Q. BATTERY COMPARTMENTS</b>							
<u>Primer:</u> BANNOH 1500	1	125	5.84	9 hrs	120 days	286	
<u>Finish (water based acrylic): IDROMARINA FINISH – pending INM assessment</u>	1 or 2	60	6.66	24 hrs	#	28	
<b>R. CABLE LOCKERS &amp; COFFERDAMS</b>							
BANNOH 1500	1	125	5.84	9 hrs	120 days	286	
<b>S. BLACK/GREY &amp; WATER BALLAST TANKS</b> IMO PSPC							
BANNOH 1500 Red	1	160	4.56	9 hrs	30 days	286	
BANNOH 1500 Grey	1	160	4.56	9 hrs	30 days	286	
Spot Repair CMP NOVA 5000 Barrier	1	300	3.3	12 hrs	7 days	175	
<b>T. MACHINERY SPACE BILGES</b>							
BANNOH 1500	2	125	4.87	9 hrs	30 days	286	
<b>U. AVCAT, DIESEL, LUB &amp; HYDRAULIC OIL TANKS SYSTEM DEF STAN 80-97 (HIGH SOLIDS)</b>							
EPICON T-800	2	125	5.2	16 hrs	21 days	359	
<b>V. POTABLE WATER TANKS</b>							
CLEANKEEP 5000	1 (2)	300	3.33	32 hrs	14 days	0	

**ANNEX B**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**CHUGOKU PAINTS (UK) Ltd**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<b>W. AQUEOUS FILM-FORMING FOAM (AFF) TANKS</b> EPICON T-800	2	125	5.2	16 hrs	21 days	359	
<b>X. DEMINERALISED WATER TANKS (Max Temperature 90°C)</b>  Standard: EPICON T-800 Alternative: CLEANKEEP 5000 – solvent free Alternative: EPICON T-800 HS GF Glass flake	2 1 (2) 2	125 300 125	5.2 3.33 5.28	16 hrs 32 hrs 24 hrs	21 days 14 days 7 days	359 0 349	
<b>Y. EPOXY HOLDING PRIMER</b> NZ PRIMER S	1	25	12	16 hrs	120 days	659	99-595-6056
<b>Z. PRIMERS FOR NON-FERROUS METALS &amp; FRP</b>  Aluminium: ALP 500 Stainless Steel: BANNOH 1500 Or EPICON S100 pending INM assessment Zinc Spray & Galvanise: GALVANITE 200 FRP Indicator Coat: CLEANKEEP 5000	1 1 1 1 1	50 125 35 30 300	11.6 5.84 8.3 12.7 3.33	10 hrs 9 hrs 8 hrs 4 hrs 32 hrs	# 120 days 7 days 30 days 14 days	414 286 603 587 0	99-967-8636  99-290-5829

Notes:

- The recoat intervals published above are based on the manufacturer's figures quoted for 20°C.
- The number of coats stated in the above table, relate to airless spray application to achieve the stated nominal dry film thickness (NDFT). Should brush application be required for touch up and repair then additional coats may be necessary to achieve the required NDFT.
- # = No maximum recoat interval, see Manufacturer's Technical Data Sheet/Application Instructions for requirements.
- It is important to ensure that surfaces are clean and free of contamination when overcoating materials, that have been left exposed, this is especially true for those products with an indefinite recoat interval.
- The Theoretical Spreading Rate (TSR) quoted in the table above is calculated from the coatings physical constants and makes no allowance for loss and assumes a totally smooth

**ANNEX B**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**CHUGOKU PAINTS (UK) Ltd**

surface. The actual spreading rate achieved Practical Spreading Rate (PSR) is dependent upon many factors and in practice the factor used may vary from as little as 1.05 up to as much as 4+. It is usual for paint manufactures to use figures of 1.3 or 1.4 for estimating purposes but they always add the caveat that actual consumption achieved may vary due to such factors as surface profile, wastage due to material left in the can, weather conditions, skill of operator etc.

6. ~ = Use blast primer Y. when appropriate.

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**ANNEX C**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**HEMPEL UK LTD**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<b>A &amp; B. BELOW WATER HULL PRIMER</b>							
<u>Standard:</u> Hempadur Quattro 17634	1	125	5.8	6 hrs	90 days	276	
<u>Tie-Coat for C, E, &amp; F:</u> Hempadur 47182	1	125	5	7 hrs	3 1/2 days	364	
<u>Tie-Coat for D:</u> Hempel Nexus 27310	1	100	5.6	6 hrs	20 hrs	388	
<u>Tie-Coat for D:</u> Hempasil Nexus X-Tend 27500 (repair only)	1	120	5.4	8 hrs	48 hrs	259	
<b>C. ANTIFOULING FINISH (Self Polishing – SPC)</b>							
<u>5-year life:</u> Hempel Globic 6000 (75950)	2	100	5.8	10 hrs	#	383	
<u>7-year life:</u> Hempel Globic 9000 (78950)	2	100	5.8	10 hrs	#	370	
<b>D. ANTIFOULING SYSTEM (Foul Release – FRC 5+ yr life)</b>							
Hempasil X3+ 87500 Hydrogel Silicone	1	150	4.7	6 hrs	#	265	
Hempaguard X7 89900 Hydrogel c/w Biocides	1 *CW*	150	4.7	6 hrs	48 hrs	262	
Seek approval. Operational requirement required due to additional H&S risks.	2 *WW*	100	7	6 hrs	48 hrs	262	
*Cold Water (CW) & Warm Water (WW) systems provided*							
<b>E. ANTIFOULING FINISH (SPC 3+ yr life)</b>							
<b>F. BOOTTOP ANTIFOULING FINISH (SPC)</b>							
<u>Standard:</u> GLOBIC 9000 (78950)	2	100	5.8	10 hrs	#	370	
<u>Alternative:</u> OLYMPIC + (72950)	2	100	5.0	8 hrs	#	365	
<b>G &amp; H. ABOVE WATER HULL &amp; SUPERSTRUCTURE &amp; PRIMER</b>							
<u>Standard:</u> QUATTRO 17634	1	125	5.8	6 hrs	90 days	276	
<u>Touch-up:</u> HEMUCRYL PRIMER 18100	2	30	15.7	4 hrs	#	61	99-909-6026
<b>J. ABOVE WATER HULL &amp; SUPERSTRUCTURE FINISH</b>							
Light Weatherwork Grey BS381C 676							
<u>Acrylic:</u> HEMPEL'S PRO ACRYLIC 55880	1	50	11.0	12 hrs	#	380	

**ANNEX C**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**HEMPEL UK LTD**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<u>Silicone Alkyd</u> : HEMPEL'S SILICONE ALKYD FINISH 53230	1	35	15.4	8 hrs	1-2 days	410	99-772-5448
<u>Tie-Coat – (if req'd)</u> : HEMPALIN UNDERCOAT 42460	1	40	12.5	8 hrs	7 days	385	99-224-6752
<u>Sealer for RASH</u> : HEMUCRYL 18100	1	30	15.7	4 hrs	#	61	99-909-6026
<b><u>K. FLIGHT &amp; WEATHERDECK SYSTEMS – DEF STAN 80-134</u></b>							
<b><u>(a). Hangar Doors</u></b>							
N/A							
<b><u>(b). Flight &amp; Weatherdeck – Type 2 Non-Skid Finish (coarse)</u></b>							
<u>Primer</u> : HEMPADUR 45880 MIO 12430	1	100	8.0	7 hrs	#	198	99-803-7233
<u>Finish</u> : HEMPEL'S NON-SKID 45710	2	400	1.9	6 hrs	30 days	206	99-831-0343
Extra Dark Sea Grey BS381C 640 Alternative – HEMPADUR SPRAY-GUARD 35490	1	2500	0.4	8 hrs	#	0	
<u>Type 2 Repair Kit</u> : HEMPEL'S DECK REPAIR KIT 941GB	Repair Kits are to be ordered through Maker Coatings and not Hempel UK						
<b><u>(c). Hanger &amp; Weatherdeck – Type 1 Non-Skid Finish (fine)</u></b>							
<u>Primer</u> : HEMPADUR 45880 MIO 12430	1	100	8.0	7 hrs	#	198	99-803-7233
<u>Hangar Deck – Finish</u> : HEMPEL'S NON-SKID 45340	2	200	3.2	6 hrs	30 days	335	99-670-9581
Dark Admiralty Grey BS381C 632							
<u>Weatherdeck – Finish</u> : HEMPEL'S NON-SKID 45340	2	200	3.2	6 hrs	30 days	335	99-213-1121
Extra Dark Sea Grey BS381C 640							
<u>Type 1 Repair Kit</u> : HEMPEL'S DECK REPAIR KIT 942GB	Repair Kits are to be ordered through Maker Coatings and not Hempel UK						
<b><u>(d). Gloss for Deck Margins</u>: Extra Dark Sea Grey BS381C 640</b>							
HEMPADUR 45143	2	125	5.0	3 hrs	30 days	330	
<b><u>L &amp; M. INTERIOR DRY COMPARTMENTS</u></b>							
<u>Standard Primer</u> : HEMPADUR 45880 MIO 12430	1	125	6.4	7 hrs	#	198	99-803-7233
<u>Standard Finish</u> : HEMUCRYL ENAMEL 58100 BS4800 00A01	2	30	13.7	6 hrs	#	63	99-660-9288

**ANNEX C**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**HEMPEL UK LTD**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<b><u>N &amp; O. INTERIOR WET COMPARTMENTS</u></b>							
<u>Standard Primer:</u> HEMPADUR 45880 MIO 12430	1	125	6.4	7 hrs	#	198	99-803-7233
<u>Standard Areas Finish:</u> HEMUDUR FC 48582 BS4800 00A01	1	80	6.9	12 hrs	15 days	27	99-988-2715
<u>Citadel Lobby Finish:</u> HEMUDUR FC 48582 BS4800 00A01 or Grey BS381C 676	1	80	6.9	12 hrs	15 days	27	99-988-2715
<u>Cleansing Stations Finish:</u> HEMPADUR 45143 White	1	100	6.0	8 hrs	#	375	99-602-7280
<u>Magazine Use Finish:</u> HEMUDUR FC48582 BS4800 00A01	1	80	6.9	1 hrs	15 days	27	99-988-2715
<b><u>P. INTERIOR DECKS</u></b> BS4800 Green 14C39							
<u>Primer:</u> HEMPADUR 45880 MIO12430	1	125	6.4	7 hrs	#	198	99-803-7233
<u>Finish:</u> HEMUDUR FC 48582	1	80	6.9	12 hrs	15 days	27	99-988-2715
<u>Cleansing Station Finish:</u> HEMPADUR 45143	1	100	6.0	8 hrs	#	375	99-471-1920
<b><u>Q. BATTERY COMPARTMENTS</u></b> BS4800 00A01							
<u>Primer:</u> HEMPADUR 45880 MIO 12430	1	150	6.0	8 hrs	#	198	99-803-7233
<b><u>R. CABLE LOCKERS &amp; COFFERDAMS</u></b>							
HEMPADUR 45880 White	1	150	6.0	8 hrs	#	217	99-264-0387
<b><u>S. BLACK/GREY &amp; WATER BALLAST TANKS</u></b> IMO PSPC							
<u>Water Ballast Tanks:</u> HEMPADUR QUATTRO 17634	2	160	4.5	6 hrs	90 days	275	
<u>Black &amp; Grey Water Tanks:</u> HEMPADUR 85671	3	100	6.8	36 hrs	5 days	320	
<b><u>T. MACHINERY SPACE BILGES</u></b>							
HEMPADUR 45880 White	2	125	6.4	7 hrs	#	217	99-264-0387
<b><u>U. AVCAT, DIESEL, LUB &amp; HYDRAULIC OIL TANKS SYSTEM DEF STAN 80-97 (HIGH SOLIDS)</u></b>							
HEMPADUR 85671	3	100	6.8	36 hrs	21 days	320	

**ANNEX C**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**HEMPEL UK LTD**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<u>V. POTABLE WATER TANKS</u> HEMPADUR 35560	2	200	5.0	24 hrs	30 days	0	
<u>W. AQUEOUS FILM-FORMING FOAM (AFF) TANKS</u> HEMPADUR 85671	3	100	6.8	36 hrs	21 days	320	
<u>X. DEMINERALISED WATER TANKS (Max Temperature 90°C)</u> HEMPADUR 85671	3	100	6.8	36 hrs	21 days	320	
<u>Y. EPOXY HOLDING PRIMER</u> HEMPADUR 15570	1	40	13.5	#	#	420	99-943-1152
<u>Z. PRIMERS FOR NON-FERROUS METALS &amp; FRP</u> <u>Aluminium, Stainless Steel, Zinc Spray &amp; Galvanised surfaces:</u>							
<u>Standard:</u> HEMPADUR 15553 (2 pack)	1	50	11	2 hrs	#	400	99-870-0653
<u>Alternative:</u> HEMUCRYL TIE COAT 18200 (1 pack)	1	20	19	24 hrs	#	40	99-199-2908
<u>FRP Indicator Coat:</u> HEMPADUR 35560	1	200	5	8 hrs	30 days	0	
Using Y. Epoxy Holding Primer as tie-coat for subsequent coats	1	40	13.5	4 hrs	#	420	99-943-1152
HIGH PROTECT 35651 Grey (repair only)	1	200	5	8 hrs	18 hrs	10	99-517-4318

Notes:

1. The recoat intervals published above are based on the manufacturer's figures quoted for 20°C.
2. The number of coats stated in the above table, relate to airless spray application to achieve the stated Nominal Dry Film Thickness (NDFT). Should brush application be required for touch up and repair then additional coats may be necessary to achieve the required NDFT.
3. # See Manufacturer's Technical Data Sheet/Application Instructions for requirements.
4. It is important to ensure that surfaces are clean and free of contamination when overcoating materials, that have been left exposed, this is especially true for those products with an indefinite recoat interval.

**ANNEX C**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**HEMPEL UK LTD**

5. The Theoretical Spreading Rate (Theo SR) quoted in the table above is calculated from the coatings physical constants and makes no allowance for loss and assumes a totally smooth surface. The actual spreading rate achieved (Practical SR) is dependent upon many factors and in practice the factor used may vary from as little as 1.05 up to as much as 4+. It is usual for paint manufactures to use figures of 1.3 or 1.4 for estimating purposes but they always add the caveat that actual consumption achieved may vary due to such factors as surface profile, wastage due to material left in the can, weather conditions, skill of operator etc.

6. ~ = Use blast primer **Y**. when appropriate.

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**ANNEX D**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**INTERNATIONAL PAINT LTD**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<b>A &amp; B. <u>BELOW WATER HULL PRIMER</u></b>							
Standard: INTERGARD 5000	1	175	4.68	12 hrs	2 months	155	99-000-5256
Alternative: INTERSHIELD 300 Foul Release only (Area D)	2	125	4.80	7 hrs	14 months	313	
Tie-Coat for C: INTERGARD 263	1	75	7.6	8 hrs	5 days	379	99-133-3854
Tie-Coat for D (if req'd): INTERSLEEK 737	1	100	6.5	4 hrs	7 days	325	99-918-1064
<b>C. <u>ANTIFOULING FINISH (Self Polishing – SPC)</u></b>							
5-year life: INTERSMOOTH 7460	2	125	3.2	12 hrs	28 days	425	99-216-8317
<b>D. <u>ANTIFOULING FINISH (Foul Release – FRC 5+ yr life) Red</u></b>							
INTERSLEEK 1100SR Slime Release Fluoropolymer	1	150	4.8	24 hrs	#	248	99-841-5218
<b>E. <u>ANTIFOULING FINISH (SPC 3+ yr life)</u></b>							
INTERSPEED 6400 Black	1	150	4	6 hrs	3 months	358	33-209-1579
<b>F. <u>BOOTTOP ANTIFOULING FINISH (SPC)</u></b>							
INTERSPEED 6400 Black	2	60	10	6 hrs	3 months	358	33-209-1579
BOOTTOP ANTIFOULING FINISH (FR)							
Standard: INTERSLEEK 1100SR Black	1	150	4.5	24 hrs	#	248	99-615-7741
<b>G &amp; H. <u>ABOVE WATER HULL &amp; SUPERSTRUCTURE &amp; PRIMER</u></b>							
INTERGARD 5000 Dawn Grey BS4800 00A01	1	150	5.47	12 hrs	14 days	155	99-000-5256
<b>J. <u>ABOVE WATER HULL &amp; SUPERSTRUCTURE FINISH</u></b>							
Light Weatherwork Grey BS381C 676							
Polysiloxane: INTERFINE 878	1	50	14.4	4 hrs	#	246	99-274-4682
Epoxy Acrylic: INTERFINE 629 HS	1	50	13	8 hrs	#	335	99-664-5391
Undercoat/Tie-Coat (if required): INTERGARD 263	1	75	7.6	8 hrs	5 days	379	99-133-3854

**ANNEX D**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**INTERNATIONAL PAINTS LTD**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<b><u>K. FLIGHT &amp; WEATHERDECK SYSTEMS – DEF STAN 80-134</u></b>							
<b><u>(a). Hangar Doors</u></b>							
[Factory finished – Interpon 610 – powder coating]	1	100	N/A	N/A	N/A	0	
<u>Markings:</u>							
<u>Epoxy Acrylic:</u> INTERFINE 629 HS	1	50	13	8 hrs	#	339	99-664-5391
<u>Polysiloxane:</u> INTERFINE 878	1	50	14.4	4 hrs	#	246	99-274-4682
<b><u>(b). Flight &amp; Weatherdeck – Type 2 Non-Skid Finish (coarse)</u></b>							
<u>Primer:</u> INTERGARD 5000 Dawn Grey BS4800 00A01	1	150	5.47	12 hrs	14 days	155	99-000-5256
<u>Finish:</u> INTERSHIELD 851 Extra Dark Sea Grey BS381C 640	2	300	1.28	16 hrs	#	169	99-391-0953
<b><u>Type 2 Repair Kit</u></b>							
INTERSHIELD 851 REP KIT Extra Dark Sea Grey BS381C 640							99-325-0579
<b><u>(c). Hanger &amp; Weatherdeck – Type 1 Non-Skid Finish (fine)</u></b>							
<u>Primer:</u> INTERGARD 5000 Dawn Grey BS4800 00A01	1	150	5.47	12 hrs	14 days	155	99-00-5256
<u>Hangar Deck:</u> INTERSHIELD 852 Dark Admiralty Grey BS381C 632	2	200	1.92	12 hrs	#	134	99-149-8996
<u>Weatherdeck:</u> INTERSHIELD 852 Extra Dark Sea Grey BS381C 640	2	200	1.92	12 hrs	#	134	99-583-1344
<b><u>Type 1 Repair Kit:</u></b>							
INTERSHIELD 852 REPAIR KIT – Dark Admiralty Grey BS381C 632							99-993-9328
<b><u>(d). Gloss for Deck Margins: Extra Dark Sea Grey BS381C 640</u></b>							
INTERGARD 740 Extra Dark Sea Grey BS381C 640	1	50	10.2	16 hrs	#	420	99-182-2627
<b><u>L &amp; M. INTERIOR DRY COMPARTMENTS</u></b>							
<u>Primer:</u> INTERGARD 5000 Dawn Grey	1	125	6.56	12 hrs	#	155	99-000-5256
<u>Finish:</u> INTERCRYL 700 BS4800 00A01	1	35	11.42	60 mins	#	50	99-799-8832
<b><u>N &amp; O. INTERIOR WET COMPARTMENTS</u></b>							
Finish colour either White BS 4800 00A01 or Grey BS 381C 676							



**ANNEX D**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**INTERNATIONAL PAINTS LTD**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<u>Primer</u> : INTERGARD 5000 Dark Grey	1	125	6.56	24 hrs	#	155	99-000-5256
<u>Standard Areas Finish</u> : INTERGARD 1735	1	50	11.2	12 hrs	#	132	99-255-0527
<u>Citadel Lobby Finish</u> : INTERGARD 1735	1	50	11.2	12 hrs	#	132	99-255-0527
<u>Cleansing Stations Finish</u> : INTERFINE 979 (overcoat primer within 4 days)	1	125	7.6	4 hrs	#	165	99-168-7337
<u>Magazines Finish</u> : INTERGARD 1735	1	50	11.2	12 hrs	#	132	99-255-0527
<b>P. <u>INTERIOR DECKS</u></b> BS4800 Green 14C39							
INTERGARD 5000	1	150	5.47	24 hrs	#	155	99-555-1384
INTERGARD 1735 Green	1	50	11.2	12 hrs	#		
<u>Cleansing Stations Finish</u> : INTERFINE 979(Overcoat primer within 4 days)	1	125	7.6	4 hrs	#	165	99-729-7357
<b>Q. <u>BATTERY COMPARTMENTS</u></b> BS4800 00A01							
INTERGARD 5000 BS4800 00A01	1	150	5.47	12 hrs	#	155	
<b>R. <u>CABLE LOCKERS &amp; COFFERDAMS</u></b>							
INTERGARD 5000	1	150	5.46	12 hrs	3 months	155	
<b>S. <u>BLACK/GREY &amp; WATER BALLAST TANKS</u></b> IMO PSPC							
<u>Water Ballast Tanks</u> : INTERGARD 5000	2	160	5.13	12 hrs	3 months	155	
<u>Black &amp; Grey Water Tanks</u> : INTERLINE 850	2	125	6.08	6 hrs	30 days	212	99-690-8481
<u>Galley Grey Water Tanks</u> : INTERLINE 994	3	100	7	44 hrs	25 days	290	
<b>T. <u>MACHINERY SPACE BILGES</u></b>							
INTERGARD 5000 White	1	175	4.68	12 hrs	3 months	155	
<b>U. <u>AVCAT, DIESEL, LUB &amp; HYDRAULIC OIL TANKS SYSTEM DEF STAN 80-97 (HIGH SOLIDS)</u></b>							
INTERLINE 850	2	125	6.08	6 hrs	30 days	225	99-690-8481
<b>V. <u>POTABLE WATER TANKS</u></b>							

**ANNEX D**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**INTERNATIONAL PAINTS LTD**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
INTERLINE 925	1	300	3.33	18 hrs	3 days	1	99-131-8010
<b>W. AQUEOUS FILM-FORMING FOAM (AFFF) TANKS</b>							
INTERLINE 704	2	125	4.24	23 hrs	21 days	385	
<b>X. DEMINERALISED WATER TANKS (Max Temperature 90°C)</b>							
INTERLINE 925 (up to 60°C only)	1	300	3.33	18 hrs	3 days	1	99-131-8010
<b>Y. EPOXY HOLDING PRIMER</b>							
<u>Standard:</u> INTERGARD 269	1	30	15.67	6 hrs	#	411	99-983-0743
<u>Alternative &amp; Maintenance:</u> INTERGARD 276	1	40	11.75	6 hrs	#	411	
<b>Z. PRIMERS FOR NON-FERROUS METALS &amp; FRP</b>							
<u>Aluminium, Stainless Steel, Zinc Spray &amp; Galvanised surfaces:</u>							
<u>Standard:</u> INTERGARD 269	1	30	15.67	6 hrs	#	411	99-983-0743
<u>Alternative:</u> INTERGARD 276	1	40	11.75	6 hrs	#	411	
<u>FRP Indicator Coat:</u> INTERLINE 925 Cream	1	300	5.0	18 hrs	3 days	1	99-216-8379

Notes;

1. The recoat intervals published above are based on the manufacturer's figures quoted for 25°C.
2. The number of coats stated in the above table, relate to airless spray application to achieve the stated Nominal Dry Film Thickness (NDFT). Should brush application be required for touch up and repair then additional coats may be necessary to achieve the required NDFT.
3. It is important to ensure that surfaces are clean and free of contamination when overcoating materials, that have been left exposed, this is especially true for those products with an indefinite recoat interval.
4. # See Manufacturer's Technical Data Sheet/Application Instructions for requirements.
5. The Theoretical Spreading Rate (Theo SR) quoted in the table above is calculated from the coatings physical constants and makes no allowance for loss and assumes a totally smooth

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**WHOLE SHIP SPECIFICATION**  
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**INTERNATIONAL PAINTS LTD**

surface. The actual spreading rate achieved (Practical SR) is dependent upon many factors and in practice the factor used may vary from as little as 1.05 up to as much as 4+. It is usual for paint manufactures to use figures of 1.3 or 1.4 for estimating purposes but they always add the caveat that actual consumption achieved may vary due to such factors as surface profile, wastage due to material left in the can, weather conditions, skill of operator etc.

6. ~ = Use blast primer Y. when appropriate.

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**ANNEX E**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**JOTUN COATINGS (EUROPE) LTD**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<b>A &amp; B. <u>BELOW WATER HULL PRIMER</u></b>							
<u>Standard:</u> JOTACOTE UNIVERSAL (Alu. Red toned)	1	200	3.6	4 hrs	#	240	
<u>Alternative:</u> JOTAMASTIC 87 ALUMINIUM (Red toned)	1	200	4.4	10 hrs	#	110	99-549-5820
<u>Alternative:</u> MARATHON IQ (Impact resistant – red)	1	500	2.0	10 hrs	3 days	30	99-958-6838
<u>Tie-Coat:</u> SAFEGUARD UNIVERSAL ES (Grey)	1	100	6.2	10 hrs	3 days	330	
<b>C. <u>ANTIFOULING FINISH (Self Polishing – SPC)</u></b>							
<u>Standard:</u> SEAQUANTUM PLUS (Light red)	1	125	3.8	7 hrs	#	460	
<u>Alternative:</u> SEAQUANTUM ULTRA (Dark Red)	2	125	3.8	7 hrs	#	460	
<b>D. <u>ANTIFOULING FINISH (Foul Release – FRC 5+ yr life) Red</u></b>							
SEALION TIECOAT Plus (If req'd – light red)	1	90	6.1	16 hrs	4 days	359	
SEALION REPULSE Nano Repellent Silicone FR Topcoat	1	150	4.8	#	#	230	
<b>E. <u>ANTIFOULING FINISH (SPC 3+ yr life)</u></b>							
SEAFORCE 90 (Light red)	1	105	5.5	7 hrs	#	370	
SEAFORCE 90 (Dark red)	1	105	5.5	7 hrs	#	370	
<b>F. <u>BOOTTOP ANTIFOULING</u></b>							
<u>Standard SPC:</u> SEAQUANTUM CLASSIC	1 or 2	150	3.1	7 hrs	#	460	
<u>Alternative FRC:</u> SEALION TIECOAT (If req'd – light red)	1	90	6.6	15 hrs	4 days	406	
SEALION REPULSE	1	150	4.8	#	#	230	
<b>G &amp; H. <u>ABOVE WATER HULL &amp; SUPERSTRUCTURE &amp; PRIMER</u></b>							
<u>Standard:</u> JOTACOTE UNIVERSAL (alu. red toned)	1	200	3.6	4 hrs	#	240	
<u>Alternative:</u> JOTAMASTIC 80 (Alu. red toned)	1	200	4.0	10 hrs	#	145	
<u>Repair Kit (1:1 mix):</u> JOTAMASTIC SMART PACK (Red)	2	70	10.7	7 hrs	#	230	

**ANNEX E**  
**WHOLE SHIP SPECIFICATION**  
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**JOTUN COATINGS (EUROPE) LTD**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<b>J. ABOVE WATER HULL &amp; SUPERSTRUCTURE FINISH</b>							
Light Weatherwork Grey BS381C 676 <u>Polysiloxane</u> : HARDTOP OPTIMA	1	75	10.1	4 hrs	#	215	
<u>Cured Acrylic</u> : HARDTOP CA	1	75	8	5 hrs	#	340	
<b>K. FLIGHT &amp; WEATHERDECK SYSTEMS – DEF STAN 80-134</b>							
<b>(a). Hangar Doors</b>							
[Factory finished – Interpon 610 – see International Paints WSS]							
<b>(b). Flight &amp; Weatherdeck – Type 2 Non-Skid Finish (coarse)</b>							
<u>Primer</u> : JOTAMASTIC 87 (Grey)	1	150	5.5	10 hrs	#	150	99-549-5820 99-690-8235
<u>Finish</u> : JOTA ARMOUR (BS381C 640)	2	375	2.4	14 hrs	#	70	
<u>Type 2 Repair Kit</u> : JOTA ARMOUR FINE (BS381C 640)	1	750	1.2	1.2	#	70	
<b>(c). Hanger &amp; Weatherdeck – Type 1 Non-Skid Finish (Fine)</b>							
<u>Primer</u> : JOTAMASTIC 87 (Grey)	1	150	5.5	10 hrs	#	150	99-549-5820
<u>Finish</u> : JOTA ARMOUR FINE (BS381C 632 or 640)	2	200	4.5	14 hrs	#	70	
<u>Type 1 Repair Kit</u> : JOTA ARMOUR FINE REPAIR KIT (BS381C 632 or 640)	1	400	2.2	14 hrs	#	70	
<b>(d). Gloss for Deck Margins: Extra Dark Sea Grey BS381C 640</b>							
<u>Cured acrylic</u> : HARDTOP CA (BS381C 676)	1	75	8	5 hrs	#	340	
<u>Polysiloxane</u> : HARDTOP OPTIMA (BS381C 676)	1	75	10.1	4 hrs	#	215	
<b>L &amp; M. INTERIOR DRY COMPARTMENTS</b>							
<u>Standard Primer</u> : WATERFINE ACRYLIC PRIMER (White)	1	80	5.8	1 hrs	#	66	99-462-9708
<u>Alternative Primer (2 pack)</u> : WATERFINE PRIMER (White)	1	80	5.8	1.5hrs	#	60	
<u>Finish</u> : TBC							

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**JOTUN COATINGS (EUROPE) LTD**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<b><u>N &amp; O. INTERIOR WET COMPARTMENTS</u></b>							
Finish colour either White BS 4800 00A01 or Grey BS 381C 676							
<u>Primer:</u> WATERFINE PRIMER (White)	1	100	4.6	1.5 hrs	#	60	99-462-9708
<u>Finish:</u> WATERFINE PRIMER (BS4800 00A01 or BS381C 676)	1 or 2	40	11.6	1.5 hrs	#	60	
<u>Cleansing Stations – Primer:</u> AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400
(Maker Coatings) <u>Finish:</u> AMERON PSX 700 White	1	125	7.2	4.5 hrs	#	120	17-113-5689
<b><u>P. INTERIOR DECKS BS4800 Green 14C39</u></b>							
<u>Primer:</u> WATERFINE PRIMER (White)	1	100	4.6	1.5 hrs	#	60	99-462-9708
<u>Finish:</u> WATERFINE PRIMER (BS4800 14C39)	1 or 2	40	11.6	1.5 hrs	#	60	
<u>Cleansing Stations – Primer:</u> AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400
(Maker Coatings) <u>Finish:</u> AMERON PSX 700 BS4800 14C39	2	125	7.2	4.5 hrs	#	120	17-113-6169
<b><u>Q. BATTERY COMPARTMENTS BS4800 00A01</u></b>							
<u>Primer:</u> WATERFINE PRIMER (White)	1	100	4.6	1.5 hrs	#	60	99-462-9708
<u>Finish:</u> WATERFINE PRIMER (BS4800 00A01)	1 or 2	40	11.6	1.5 hrs	#	60	
<b><u>R. CABLE LOCKERS &amp; COFFERDAMS</u></b>							
<u>Standard:</u> JOTAMASTIC 80 (Alu. red toned)	1	175	4.6	10 hrs	#	145	
<u>Alternative:</u> JOTACOTE UNIVERSAL (Alu. red toned)	1	200	3.6	4 hrs	#	240	
<b><u>S. BLACK/GREY &amp; WATER BALLAST TANKS IMO PSPC</u></b>							
<u>Water Ballast Tanks</u>							
<u>Standard:</u> BALLOXY HB LIGHT (Green)	1	160	5.1	10 hrs	#	150	17-108-7825
BALLOXY HB LIGHT (Green)	1	160	5.1	10 hrs	#	150	17-108-7825
<u>Alternative:</u> JOTACOTE UNIVERSAL (Alu. red toned)	1	160	4.5	4 hrs	#	240	
JOTACOTE UNIVERSAL (Grey)	1	160	4.5	4 hrs	#	240	

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**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**JOTUN COATINGS (EUROPE) LTD**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<b><u>Black &amp; Grey Water Tanks</u></b>							
<u>Standard:</u> TANKGUARD STORAGE (Light red)	1	150	4.2	10 hrs	30 days		
TANKGUARD STORAGE (Red)	1	150	4.2	10 hrs	30 days		
<u>Alternative:</u> TANKGUARD DW (Light grey)	1	150	6.7	12 hrs	5 days		
TANKGUARD DW (White)	1	150	6.7	12 hrs	5 days		
<b><u>T. MACHINERY SPACE BILGES</u></b>							
<u>Primer:</u> JOTACOTE UNIVERSAL (Alu. red toned)	1	125	5.8	4 hrs	#	240	
<u>Finish:</u> HARDTOP CA (BS4800 00A01)	1 or 2	75	10.1	4 hrs	#	215	
<b><u>U. AVCAT, DIESEL, LUB &amp; HYDRAULIC OIL TANKS SYSTEM DEF STAN 80-97 (HIGH SOLIDS)</u></b>							
TANKGUARD STORAGE (Light red)	1	125	5.0	10 hrs	30 days	310	
TANKGUARD STORAGE (Light grey)	1	125	5.0	10 hrs	30 days	310	
<b><u>V. POTABLE WATER TANKS</u></b>							
TANKGUARD DW (Light grey)	1	150	6.7	12 hrs	5 days	2	
TANKGUARD DW (White)	1	150	6.7	12 hrs	5 days	2	
<b><u>W. AQUEOUS FILM-FORMING FOAM (AFFF) TANKS</u></b>							
TANKGUARD DW (Light grey)	1	150	6.7	12 hrs	5 days	2	
TANKGUARD DW (White)	1	150	6.7	12 hrs	5 days	2	
<b><u>X. DEMINERALISED WATER TANKS (Max Temperature 90°C)</u></b>							
<u>Standard:</u> TANKGUARD DW (Light grey)	1	125	5.0	10 hrs	30 days	310	
TANKGUARD DW (Light red)	1	125	5.0	10 hrs	30 days	310	
TANKGUARD DW (Light grey)	1	125	5.0	10 hrs	30 days	310	
<u>Alternative:</u> TANKGUARD PLUS (White)	1	100	7.0	20 hrs	21 days	300	
TANKGUARD PLUS (Buff)	1	100	7.0	20 hrs	21 days	300	
TANKGUARD PLUS (White)	1	100	7.0	20 hrs	21 days	300	
<b><u>Y. EPOXY HOLDING PRIMER</u></b>							
MUKI EPS (Red)	1	20	12.5	7 hrs		610	



**ANNEX E**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**JOTUN COATINGS (EUROPE) LTD**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<u>Z. PRIMERS FOR NON-FERROUS METALS &amp; FRP</u> <u>Aluminium, Stainless steel, Zinc Spray or Galvanised surfaces:</u>							
WATERFINE PRIMER (Primer)	1	60	7.6	1.5 hrs	#	60	99-462-9708
<u>FRP Indicator Coat: PENGUARD HB (White)</u>	2	150	3.6	8 hrs	#	390	99-958-9132

Notes:

1. The recoat intervals published above are based on the Manufacturer's figures quoted for 23°C.
2. The number of coats stated in the above table, relate to airless spray application to achieve the stated Nominal Dry Film Thickness (NDFT). Should brush application be required for touch up and repair then additional coats may be necessary to achieve the required NDFT.
3. # = See Manufacturer's Technical Data Sheet / Application instructions for requirements.
4. It is important to ensure that surfaces are clean and free of contamination when overcoating materials, that have been left exposed, this is especially true for those products with an indefinite recoat interval.
5. The Theoretical Spreading Rate (Theo SR) quoted in the table above, per coat, is calculated from the coatings physical constants and makes no allowance for loss and assumes a totally smooth surface. The actual spreading rate achieved (Practical SR) is dependent upon many factors and in practice the factor used may vary from as little as 1.05 up to as much as 4+. It is usual for Paint Manufacturers to use figures of 1.3 or 1.4 for estimating purposes but they always add the caveat that actual consumption achieved may vary due to such factors as surface profile, wastage due to material left in the can, weather conditions, skill of operator etc.
6. ~ = Use blast primer Y. when appropriate.

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**ANNEX F**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**MAKER COATING SYSTEMS LTD.**

**Incorporating: PPG, Ameron, Sigma & CORROLESS**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<b>A &amp; B. BELOW WATER HULL PRIMER</b>							
Standard: CORROLESS EPF (Tie-Coat not req'd where over coated in <3 days)	1	200	4.8	16 hrs	3 days	80	99-403-5015
Alternative: SIGMASHIELD 220 (7951)	1	125	6.4	3.5 hrs	14 days	262	99-723-3658
Tie-Coat (If req'd): SIGMACOVER 525 (7902)	1	100	6.1	12 hrs	14 days	365	99-322-9677
<b>C. ANTIFOULING FINISH (Self Polishing – SPC 5 yr life)</b>							
SIGMA ECOFLEET 530 (Red brown) (7385)	1	110	5.4	6 hrs	#	339	99-153-6929
SIGMA ECOFLEET 530 (Brown) (7385)	1	110	5.4	6 hrs	#	339	99-996-2266
<b>D. ANTIFOULING FINISH (Foul Release – FRC 5+ yr life) Red</b>							
SIGMACOVER 295 (7947)	1	100	5.5	16 hrs	10 days	436	
SIGMASHIELD 610 (7978)	1	150	3.8	12 hrs	5 days	436	
SIGMAGLIDE 790 (7386)	1	150	5.3	12 hrs	5 days	187	99-406-0976
SIGMAGLIDE 890: Silicone FR Finish (7399)	1	150	3.4	20 mins	#	215	
SIGMAGLIDE 990: High Efficiency FR Finish (7397)	1	180	4.4	2 hrs	#	248	99-429-9323
<b>E. ANTIFOULING FINISH (SPC 3+ yr life)</b>							
SIGMA ECOFLEET 530 (Red brown) (7385)	1	110	5.4	6 hrs	#	339	99-153-6929
SIGMA ECOFLEET 530 (Brown) (7385)	1	110	5.4	6 hrs	#	339	99-996-2266
<b>F. BOOTTOP ANTIFOULING</b>							
SIGMA ECOFLEET 530 Black (7385)	1	110	5.4	6 hrs	#	339	99-375-0408
<b>G &amp; H. ABOVE WATER HULL &amp; SUPERSTRUCTURE &amp; PRIMER</b>							
Standard: AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400
Alternative: SIGMASHIELD 220 (7922)	1	125	6.4	3.5 hrs	14 days	262	99-403-5015
<b>J. ABOVE WATER HULL &amp; SUPERSTRUCTURE FINISH</b>							
Light Weatherwork Grey BS381C 676							
Polysiloxane: (AMERON PSX700)	1	75	12	3 hrs	#	164	17-113-5689
Epoxy Acrylic: SIGMADUR 540 (7740)	1	50	10.8	8 hrs	#	411	TBC

**ANNEX F  
WHOLE SHIP SPECIFICATION  
Proposed by**

**MAKER COATING SYSTEMS LTD.**

**Incorporating: PPG, Ameron, Sigma & CORROLESS**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<b><u>K. FLIGHT &amp; WEATHERDECK SYSTEMS – DEF STAN 80-134</u></b>							
<b>(a). Hangar Doors</b> [Factory finished – Interpon 610 – see International Paints WSS]							
<b>(b). Flight &amp; Weatherdeck – Type 2 Non-Skid Finish (coarse)</b>							
Primer: AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400
Finish: AMERLOCK 400 NS Extra Dark Sea Grey BS381C 640	2	400	2.3	16 hrs	#	106	99-940-6452
<b>Type 2 Repair Kit:</b>							
AMERLOCK 400 NS T2R							TBC
<b>(c). Hanger &amp; Weatherdeck – Type 1 Non-Skid Finish (Fine)</b>							
Primer: AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400
Hangar Deck: AMERLOCK 400 NS Dark Admiralty Grey BS 381C 632	2	300	4	16 hrs	#	106	
Weatherdeck: AMERLOCK 400 NS Extra Dark Sea Grey BS 381C 640	2	300	4	16 hrs	#	106	99-940-6452
<b>Type 1 Repair Kit:</b>							
AMERLOCK 400 NS T1R	2	300	4	16 hrs	#	106	TBC
<b>(d). Gloss for Deck Margins: Extra Dark Sea Grey BS381C 640</b>							
AMERLOCK 400C BS381C 640	2	125	7	16 hrs	#	106	TBC
<b><u>L &amp; M. INTERIOR DRY COMPARTMENTS</u></b>							
Primer: AMERLOCK 400C	1	100	8.75	16 hrs	#	106	99-974-7400
Finish: AMERLOCK 400C BS4800 00A01	1	100	8.75	16 hrs	#	106	99-958-6062
Alternative Primer: SIGMA AQUACOVER 25 (7150)	1	75	5.7	4 hrs	#	25	TBC
Alternative Finish: SIGMA AQUACOVER 45 (7250)	1	50	6.8	24 hrs	#	10	99-236-5744
<b><u>N &amp; O. INTERIOR WET COMPARTMENTS</u></b>							
Finish colour either White BS 4800 00A01 or Grey BS 381C 676							
Primer: AMERLOCK 400C	1	100	8.75	16 hrs	#	106	99-974-7400

**ANNEX F**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**MAKER COATING SYSTEMS LTD.**

**Incorporating: PPG, Ameron, Sigma & CORROLESS**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<u>Standard Finish: AMERLOCK 400C</u>	1	100	8.75	16 hrs	#	106	99-958-6062
<u>Citadel Lobby Finish: AMERLOCK 400C or Grey BS381C 676</u>	1	100	8.75	16 hrs	#	106	99-958-6062
<u>Magazines Finish: AMERLOCK 400C</u>	1	100	8.75	16 hrs	#	106	99-958-6062
<u>Cleansing Stations Primer: AMERLOCK 400C</u>	1	125	7	16 hrs	#	106	99-974-7400
<u>Cleansing Stations Finish: AMERON PSX 700</u>	1	125	7.2	4.5 hrs	#	120	17-113-5689
<b>P. INTERIOR DECKS</b> BS4800 Green 14C39							
<u>Primer: AMERLOCK 400C</u>	1	100	8.75	16 hrs	#	106	99-974-7400
<u>Finish: AMERLOCK 400C</u>	1	100	8.75	16 hrs	#	106	99-958-6062
<u>Cleansing Stations Finish: AMERON PSX 700</u>	1	125	7.2	4.5 hrs	#	120	17-133-6169
<b>Q. BATTERY COMPARTMENTS</b> BS4800 00A01							
<u>Primer: AMERLOCK 400C</u>	1	100	8.75	16 hrs	#	106	99-974-7400
<u>Finish: AMERLOCK 400C</u>	1	100	8.75	16 hrs	#	106	99-958-6062
<b>R. CABLE LOCKERS &amp; COFFERDAMS</b>							
SIGMASHIELD 880	1	350	2.9	3.5 hrs	14 days	207	TBC
<b>S. BLACK/GREY &amp; WATER BALLAST TANKS</b> IMO PSPC							
CORROLESS EPF Black or Buff	1	200	4.8	16 hrs	#	80	25-150-0972
CORROLESS RF35 White	1	200	4.8	16 hrs		93	25-150-0973
<b>T. MACHINERY SPACE BILGES</b>							
AMERLOCK 400C WHITE	2	125	7	16 hrs	#	106	17-108-8248
<b>U. AVCAT, DIESO, LUB &amp; HYDRAULIC OIL TANKS SYSTEM DEF STAN 80-97 (HIGH SOLIDS)</b>							
CORROLESS EPF Black or Buff	1	200	4.8	16 hrs	3 days	80	25-150-0972
CORROLESS RF35 White	1	200	4.8	16 hrs	3 days	93	25-150-0973

**ANNEX F**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**MAKER COATING SYSTEMS LTD.**

**Incorporating: PPG, Ameron, Sigma & CORROLESS**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<b>V. <u>POTABLE WATER TANKS</u></b>							
CORROLESS EPF Black or Buff	1	200	4.8	16 hrs	3 days	80	25-150-0972
CORROLESS RF35 White	1	200	4.8	16 hrs	3 days	93	25-150-0973
<b>W. <u>AQUEOUS FILM-FORMING FOAM (AFFF) TANKS</u></b>							
<u>Standard:</u> CORROLESS EPF Black or Buff	1	200	4.8	16 hrs	3 days	80	25-150-0972
CORROLESS RF35 Grey	1	200	4.8	16 hrs	3 days	93	99-337-0778
<u>Alternative:</u> SIGMAGUARD CSF 650 (7443)	1	200	2.9	24 hrs	20 days	143	
<b>X. <u>DEMINERALISED WATER TANKS (Max Temperature 90°C)</u></b>							
<u>Standard:</u> CORROLESS EPF Black or Buff	1	200	4.8	16 hrs	3 days	80	25-150-0972
CORROLESS RF35 Grey	1	200	4.8	16 hrs	3 days	93	99-337-0778
<u>Alternative:</u> SIGMAGUARD CSF 650 (7443)	1	350	2.9	24 hrs	20 days	143	
<b>Y. <u>EPOXY HOLDING PRIMER</u></b>							
SIGMACOVER 280 (7417)	1	50	11.4	8 hrs	6 months	432	99-569-7697
<b>Z. <u>PRIMERS FOR NON-FERROUS METALS &amp; FRP</u></b>							
<u>Stainless Steel:</u> SIGMACOVER 280	1	50	11.4	8 hrs	#	432	
<u>Aluminium/ Zinc Spray/ Galvanised surfaces:</u> AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400
<u>FRP Indicator Coat:</u> AMERLOCK 400C Green RAL 6011	2	125	7	16 hrs	#	106	17-120-4829

Notes:

1. The recoat intervals published above are based on the manufacturer's figures quoted for 20°C.

**ANNEX F**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**MAKER COATING SYSTEMS LTD.**

**Incorporating: PPG, Ameron, Sigma & CORROLESS**

2. The number of coats stated in the above table, relate to airless spray application to achieve the stated Nominal Dry Film Thickness (NDFT). Should brush application be required for touch up and repair then additional coats may be necessary to achieve the required NDFT.
3. # = No maximum recoat interval, see Manufacturer's Technical Data Sheet/Application Instructions for requirements.
4. It is important to ensure that surfaces are clean and free of contamination when overcoating materials, that have been left exposed, this is especially true for those products with an indefinite recoat interval.
5. The Theoretical Spreading Rate (TSR) quoted in the table above is calculated from the coatings physical constants and makes no allowance for loss and assumes a totally smooth surface. The actual spreading rate achieved Practical Spreading Rate (PSR) is dependent upon many factors and in practice the factor used may vary from as little as 1.05 up to as much as 4+. It is usual for paint manufactures to use figures of 1.3 or 1.4 for estimating purposes but they always add the caveat that actual consumption achieved may vary due to such factors as surface profile, wastage due to material left in the can, weather conditions, skill of operator etc.
6. ~ = Use blast primer Y. when appropriate.

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**ANNEX G**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**PPG Protective & Marine Coatings**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<b>A &amp; B. BELOW WATER HULL PRIMER</b>							
<u>Standard:</u> SIGMACOVER 240 (7991)	1	175	5	5 hrs	30 days	153	
<u>Tie-Coat (For C, E &amp; F if req'd):</u> SIGMACOVER 525 (7902)	1	75	8.2	12 hrs	14 days	365	
<b>C. ANTIFOULING FINISH (Self Polishing – SPC 5 yr life)</b>							
SIGMA ECOFLEET 530 (Red brown)	1	175	3.4	6 hrs	#	339	99-153-6929
SIGMA ECOFLEET 530 (Brown)	1	175	3.4	6 hrs	#	339	99-996-2266
<b>D. ANTIFOULING FINISH (Foul Release – FRC 5+ yr life) Red</b>							
SIGMACOVER 240 (7991)	1	125	7	5 hrs	30 days	153	
SIGMASHIELD 610 (7978)	1	150	3.8	12 hrs	5 days	437	
SIGMAGLIDE 790 (7386)	1	150	5.3	12 hrs	5 days	187	99-406-0976
SIGMAGLIDE 890: Silicone FR Finish (7399)	1	150	3.4	20 mins	#	215	
SIGMAGLIDE 990: High Efficiency FR Finish (7397)	1	180	4.4	2 hrs	#	248	99-429-9323
SIGMAGLIDE 1290: Low-speed Slime Release Finish	1	180	4.8	#	#	118	99-217-0541
Seek approval. Operational req'ment req'd due to additional H&S risks.							
<b>E. ANTIFOULING FINISH (SPC 3+ yr life)</b>							
SIGMA ECOFLEET 530 (Red brown) 7385	1	110	5.4	6 hrs	#	339	
SIGMA ECOFLEET 530 (Brown) 7385	1	110	5.4	6 hrs	#	339	
<b>F. BOOTTOP ANTIFOULING</b>							
SIGMA ECOFLEET 530 (Black) 7385	1	110	5.4	6 hrs	#	339	
<b>G &amp; H. ABOVE WATER HULL &amp; SUPERSTRUCTURE &amp; PRIMER</b>							
<u>Standard:</u> SIGMACOVER 240 (7991)	1	150	5.8	5 hrs	30 days	153	
<u>Alternative:</u> SIGMASHIELD 220 (7922)	1	150	5.3	3.5 hrs	14 days	262	
<b>J. ABOVE WATER HULL &amp; SUPERSTRUCTURE FINISH</b>							
Light Weatherwork Grey BS381C 676 <u>Polysiloxane:</u> SIGMA PSX700 (7777)	1	75	12	3 hrs	#	164	
<u>Epoxy Acrylic:</u> SIGMADUR 540 (7740)	1	50	10.8	8 hrs	#	411	

**ANNEX G**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**PPG Protective & Marine Coatings**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<u>Urethane Polyester: SIGMADUR ONE (7533)</u>	1	50	10.8	8 hrs	#	400	
<b><u>K. FLIGHT &amp; WEATHERDECK SYSTEMS – DEF STAN 80-134</u></b>							
<b><u>(a). Hangar Doors</u></b> [Factory finished – Interpon 610 – see International Paints WSS]							
<b><u>(b). Flight &amp; Weatherdeck – Type 2 Non-Skid Finish (coarse)</u></b>							
<u>Primer: AMERCOAT 137</u>	1	125	3.9	12 hrs	3 days	264	
<u>Finish: AMERCOAT 138L Extra Dark Sea Grey BS 381C 640</u>	1	1300	0.6	24 hrs	#		1 coat?
<u>Type 2 Repair Kit</u>							
<b><u>(c). Hanger &amp; Weatherdeck – Type 1 Non-Skid Finish (Fine)</u></b>							
<u>Primer: AMERCOAT 137 DECK PRIMER</u>	1	125	3.9	12 hrs	3 days	264	
<u>Hangar Deck: AMERCOAT 138G Dark Admiralty Grey BS 381C 632</u>	1	1300	0.6	24 hrs	#	168	1 coat?
<u>Weatherdeck: AMERCOAT 138G Extra Dark Sea Grey BS 381C 640</u>	1	1300	0.6	24 hrs	#	168	1 coat?
<u>Type 1 Repair Kit:</u>							
<b><u>(d). Gloss for Deck Margins: Extra Dark Sea Grey BS381C 640</u></b>							
<u>SIGMADUR 540</u>	1	50	12	8 hrs	#	411	
<b><u>L &amp; M. INTERIOR DRY COMPARTMENTS</u></b>							
<u>Standard Primer: SIGMA AQUACOVER (7150)</u>	1	75	6.6	4 hrs	#	31	
<u>Finish: SIGMA AQUACOVER 45 (7250)</u>	1	50	6.8	6 hrs	#	17	99-277-8693
<u>Alternative Primer: SIGMACOVER 240 (7991)</u>	1	75	11.6	5 hrs	30 days	153	
<u>Finish: SIGMACOVER 240 (7991)</u>	1	75	11.6	5 hrs	30 days	153	
<b><u>N &amp; O. INTERIOR WET COMPARTMENTS</u></b>							
Finish colour either White BS 4800 00A01 or Grey BS 381C 676							
<u>Standard Areas Primer: SIGMACOVER 240 (7991)</u>	1	100	8.7	5 hrs	30 days	153	
<u>Finish: SIGMACOVER 240 (7991)</u>	1	100	8.7	5 hrs	30 days	153	

**ANNEX G**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**PPG Protective & Marine Coatings**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<u>Citadel Lobby Primer: SIGMACOVER 240 (7991)</u>	1	75	11.6	5 hrs	30 days	153	
<u>&amp; Magazine Finish: SIGMASHIELD 420 (7951) or Grey BS 381C 676</u>	1	150	5.6	3.5 hrs	14 days	212	
<u>Cleansing Stations: SIGMAGUARD CSF 650 (7443)</u>	1	350	2.9	24 hrs	20 days	143	
<b>P. <u>INTERIOR DECKS</u> BS4800 Green 14C39</b> <u>Standard &amp; Cleansing Stations</u>							
<u>Primer: SIGMACOVER 240 (7991)</u>	1	100	8.7	5 hrs	30 days	153	
<u>Finish: SIGMACOVER 400 (7988)</u>	1	100	8.5	16 hrs	30 days	180	
<b>Q. <u>BATTERY COMPARTMENTS</u> BS4800 00A01</b>							
<u>Primer: SIGMACOVER 240 (7991)</u>	1	100	8.7	5 hrs	30 days	153	
<u>Finish: SIGMACOVER 400 (7988)</u>	1	100	8.5	16 hrs	30 days	180	17-126-8887
<b>R. <u>CABLE LOCKERS &amp; COFFERDAMS</u></b>							
<u>SIGMACOVER 240 (7991)</u>	1	150	5.8	5 hrs	30 days	153	
<b>S. <u>BLACK/GREY &amp; WATER BALLAST TANKS</u> IMO PSPC</b>							
<u>Water Ballast Tanks: SIGMACOVER 240 (7991)</u>	2	160	5.4	5 hrs	30 days	153	
<u>Black / Grey Water Tanks: SIGMAGUARD CSF650 (7443)</u>	1	350	2.9	24 hrs	20 days	143	
<b>T. <u>MACHINERY SPACE BILGES</u></b>							
<u>SIGMACOVER 240 (7991)</u>	1	175	5	5 hrs	30 days	153	
<b>U. <u>AVCAT, DIESEL, LUB &amp; HYDRAULIC OIL TANKS SYSTEM DEF STAN 80-97 (HIGH SOLIDS)</u></b>							
<u>SIGMAGUARD CSF 650 (7443)</u>	1	350	2.9	24 hrs	20 days	143	
<b>V. <u>POTABLE WATER TANKS</u></b>							
<u>SIGMAGUARD CSF 585 (7785)</u>	1	300	3.3	24 hrs	20 days	6	
<b>W. <u>AQUEOUS FILM-FORMING FOAM (AFF) TANKS</u></b>							
<u>SIGMAGUARD CSF 650 (7443)</u>	1	350	2.9	24 hrs	20 days	143	
<b>X. <u>DEMINERALISED WATER TANKS (Max Temperature 90°C)</u></b>							
<u>SIGMAGUARD CSF 650 (7443)</u>	1	350	2.9	24 hrs	20 days	143	

**ANNEX G**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**PPG Protective & Marine Coatings**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<u>Y. EPOXY HOLDING PRIMER</u> SIGMACOVER 280 (7417)	1	50	11.4	8 hrs		430	99-569-7697
<u>Z. PRIMERS FOR NON-FERROUS METALS &amp; FRP</u> <u>Aluminium / Stainless Steel / Zinc Spray / Galvanise:</u> SIGMACOVER 280 (7417)	1	50	11.4	8 hrs	3 months	432	99-569-7697
<u>FRP Indicator coat: AMERLOCK 400C</u> Green RAL 6011	2	125	7	16 hrs	#	106	17-120-4829

Notes:

1. The recoat intervals published above are based on the manufacturer's figures quoted for 20°C.
2. The number of coats, stated in the above table, relate to airless spray application to achieve the stated Nominal Dry Film Thickness (NDT). Should brush application be required for touch up and repair then additional coats may be necessary to achieve the required NDFT.
3. # = No maximum recoat interval, see Manufacturer's Technical Data Sheet/Application Instructions for requirements.
4. It is important to ensure that surfaces are clean and free of contamination when overcoating materials, that have been left exposed, this is especially true for those products with an indefinite recoat interval.
5. The Theoretical Spreading Rate (TSR) quoted in the table above is calculated from the coatings physical constants and makes no allowance for loss and assumes a totally smooth surface. The actual spreading rate achieved Practical Spreading Rate (PSR) is dependent upon many factors and in practice the factor used may vary from as little as 1.05 up to as much as 4+. It is usual for paint manufactures to use figures of 1.3 or 1.4 for estimating purposes but they always add the caveat that actual consumption achieved may vary due to such factors as surface profile, wastage due to material left in the can, weather conditions, skill of operator etc.
6. ~ = Use blast primer Y. when appropriate.

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**ANNEX H**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**SHERWIN WILLIAMS PROTECTIVE & MARINE COATINGS**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<b>A &amp; B. <u>BELOW WATER HULL PRIMER</u></b>							
Macropoxy® C425V2	1	175	7.5	4 hrs	#	186	99-786-7949
<u>Tie-Coat (If req'd):</u> SHERWIN M535	1	50	8.0	2 hrs	#	502	99-453-1479
<b>C. <u>ANTIFOULING FINISH (Self Polishing – SPC)</u></b>							
SEA GRANDPRIX 1000L silyl hydrolysis	2	150	3.4	5 hrs	#	408	
<b>D. <u>ANTIFOULING FINISH (Foul Release – FRC 5+ yr life) Red</u></b>							
CMP BIOCLEAN SG R	1	125	4.86	20 hrs	#	406	
CMP BIOCLEAN R	1	100	6.5	4 hrs	24 hrs	325	
CMP BIOCLEAN HB pure silicon finish	1	150	4.73	#	#	261	
<b><u>Propeller &amp; Rudder:</u></b>							
Etching Primer							
<i>Epicon B100 – Pending INM Assessment</i>	1	70	7.1	3 hrs	5 days	363	
CMP BIOCLEAN SG R	1	100	6	4 hrs	#	406	
CMP BIOCLEAN R single pack silicone finish	1	200	3.3	4 hrs	24 hrs	325	
<b>E. <u>ANTIFOULING FINISH (SPC 3+ yr life)</u></b>							
SEA GRANDPRIX 660HS (fusion up to 60 months)	1	150	4.5	5 hrs	#	324	
<b>F. <u>BOOTTOP ANTIFOULING FINISH (SPC)</u></b>							
<b>Standard:</b> SEA GRANDPRIX 660 HS (Fusion)	1	150	4.5	5 hrs	#	324	
<b>Alternative:</b> SEA GRANDPRIX 1000L silyl hydrolysis	1	150	3.4	5 hrs	#	408	
<b>G &amp; H. <u>ABOVE WATER HULL &amp; SUPERSTRUCTURE &amp; PRIMER</u></b>							
Macropoxy® C425V2	1	100	7.5	4 hrs	#	186	99-786-7949
<b>J. <u>ABOVE WATER HULL &amp; SUPERSTRUCTURE FINISH</u></b>							
Light Weatherwork Grey BS381C 676							

**ANNEX H  
WHOLE SHIP SPECIFICATION  
Proposed by**

**SHERWIN WILLIAMS PROTECTIVE & MARINE COATINGS**

<b>Proposed Systems/Materials</b>	<b>No. of coats</b>	<b>NDFT per coat Microns</b>	<b>Theo SR m<sup>2</sup>/litre</b>	<b>Min@ 20°C Recoat Interval</b>	<b>Max@ 20°C Recoat Interval</b>	<b>VOC gms per ltr</b>	<b>NATO Stock Number</b>
<u>Silicone Alkyd</u> : Kem-Kromik A165	1	35	14.6	16 hrs	#	407	99-982-2604
<u>Acrylic Epoxy</u> : Acrolon™ C750V2	1	50	10.6	3 hrs	#	364	99-212-2175
<u>Tie Coat (if req'd)</u> : Sherwin M671	1	35	14.9	4 hrs	#	380	99-872-1746
<b><u>K. FLIGHT &amp; WEATHERDECK SYSTEMS – DEF STAN 80-134</u></b>							
<b><u>(a). Hangar Doors</u></b> [Factory finished – Interpon 610 – see International Paints WSS]							
<b><u>(b). Flight &amp; Weatherdeck – Type 2 Non-Skid Finish (coarse)</u></b>							
<u>Primer</u> : Macropoxy® C425V2	1	125	6.0	4 hrs	#	186	99-786-7949
<u>Finish</u> : EPIDEK M339 Extra Dark Sea Grey	2	200	1.8	4 hrs	#	250	99-215-4495
<u>Type 2 Repair Kit</u> EPIDEK M339							
<b><u>(c). Hanger &amp; Weatherdeck – Type 1 Non-Skid Finish (Fine)</u></b>							
<u>Primer</u> : Macropoxy® C425V2	1	125	6.0	4 hrs	#	186	99-786-7949
<u>Hangar Deck</u> : EPIDEK M377 Dark Admiralty Grey BS381C 632	2	250	2.5	4 hrs	#	330	99-777-8689
<u>Hangar Deck</u> : EPIDEK M377	2	250	2.5	4 hrs	#	330	
<u>Type 1 Repair Kit</u> : EPIDEK M337							
<b><u>(d). Gloss for Deck Margins</u></b> : Extra Dark Sea Grey BS381C 640							
<u>Macropoxy® M262</u>	1	75			#	354	99-133-8713
<b><u>L &amp; M. INTERIOR DRY COMPARTMENTS</u></b>							
<u>Primer</u> : Macropoxy® C425V2	1	125	6.0	5 hrs	#	186	99-786-7949
<u>Finish</u> : Sher-Cryl™ M770 BS4800 00A01	1	25	15.6	3 hrs	#	78	99-517-5228
<b><u>N &amp; O. INTERIOR WET COMPARTMENTS</u></b>							
Finish colour either White BS 4800 00A01 or Grey BS 381C 676							
<u>Primer</u> : Macropoxy® C425V2	1	125	6.8	5 hrs	#	186	99-786-7949

**ANNEX H**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**SHERWIN WILLIAMS PROTECTIVE & MARINE COATINGS**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<u>Standard Areas Finish:</u> Macropoxy® M630V2 BS4800 00A01	1	75	6.8	24 hrs	#	0	99-535-5105
<u>Citadel lobby Finish:</u> Macropoxy® M630V2 - Colour either: White BS4800 00A01 or Grey BS381C 676	1	75	6.8	24 hrs	#	66	99-535-5105
<u>Cleansing Stations Finish:</u> Macropoxy® H766 White	1	10	14.0	5 hrs	#	395	99-623-9946
<u>Magazine Finish:</u> Macropoxy® M630V2 BS4800 00A01	1	75	6.8	24 hrs	#	0	99-535-5105
<b>P. INTERIOR DECKS</b> BS4800 Green 14C39							
<u>Standard Primer:</u> Macropoxy® C425V2	1	125	6.0	5 hrs	#	186	99-786-7949
<u>Finish:</u> Macropoxy® M630V2	1	75	6.8	24 hrs	#	0	99-255-5237
<u>Cleansing Stations Finish:</u> Macropoxy® H766	1	40	14.0	5 hrs	#	395	99-501-4661
<b>Q. BATTERY COMPARTMENTS</b> BS4800 00A01							
<u>Primer:</u> Macropoxy® C425V2	1	100	7.5	4 hrs	#	197	99-786-7949
<u>Finish:</u> Macropoxy® M630V2 BS4800 00A01	1	75	6.8	24 hrs	#	0	99-535-5105
<b>R. CABLE LOCKERS &amp; COFFERDAMS</b>							
Macropoxy® L524 WHITE	2	125	5.1	12 hrs	#	296	99-561-2934
<b>S. BLACK/GREY &amp; WATER BALLAST TANKS</b> IMO PSPC							
<u>Water Ballast Tanks:</u> Macropoxy® L524 (typical dft 125. care req'd on overlap at 160)	2	160	3.9	12 hrs	#	296	99-564-2934
<u>Black &amp; Grey Water Tanks:</u> Macropoxy® C251	2	125	5.9	24 hrs	28 days	235	99-284-3464
<b>T. MACHINERY SPACE BILGES</b>							
Macropoxy® L524	2	125	5.1	12 hrs	#	296	99-564-2934
<u>Optional Hygiene Coat:</u> Macropoxy® M630V2	1	75	6.8	12 hrs	#	0	99-535-5105
<b>U. AVCAT, DIESEL, LUB &amp; HYDRAULIC OIL TANKS SYSTEM DEF STAN 80-97 (HIGH SOLIDS)</b>							
Macropoxy® M922	2	200	5.4	4 hrs	14 days	143	99-834-8384



**ANNEX H**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**SHERWIN WILLIAMS PROTECTIVE & MARINE COATINGS**

Proposed Systems/Materials	No. of coats	NDFT per coat Microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number
<b>V. <u>POTABLE WATER TANKS</u></b> Macropoxy® P300	1	500	2.0	6 hrs	36 hrs	0	
<b>W. <u>AQUEOUS FILM-FORMING FOAM (AFFF) TANKS</u></b> Macropoxy® C251	2	125	5.9	24 hrs	28 days	235	99-284-3464
<b>X. <u>DEMINERALISED WATER TANKS (Max Temperature 90°C)</u></b> Macropoxy® C251	2	125	5.9	24 hrs	28 days	235	99-284-3464
<b>Y. <u>EPOXY HOLDING PRIMER</u></b> Macropoxy® L574	1	25	11.6	3 hrs	#	594	99-895-9894
<u>Alternative &amp; maintenance:</u> Macropoxy® M111	1	60	9.0	4 hrs	#	383	99-844-5957
<b>Z. <u>PRIMERS FOR NON-FERROUS METALS &amp; FRP</u></b> <u>Aluminium / Galvanise / Stainless Steel:</u> Macropoxy® L425	1	35	17.1	5 hrs	#	346	99-777-8688
<u>Zinc Spray:</u> Macropoxy® L574	1	25	11.6	3 hrs	#	594	99-895-9894
<u>FRP Indicator Coat:</u> Macropoxy® C425V2 Off white	2	150	5	4 hrs	#	186	99-133-8714

Notes:

1. The recoat intervals published above are based on the manufacturer's figures quoted for 23°C.
2. The number of coats stated in the above table, relate to airless spray application to achieve the stated Nominal Dry Film Thickness (NDFT). Should brush application be required for touch up and repair then additional coats may be necessary to achieve the required NDFT.
3. # = Indefinite but see Manufacturer's Technical Data Sheet/Application Instructions for requirements.
4. It is important to ensure that surfaces are clean and free of contamination when overcoating materials, that have been left exposed, this is especially true for those products with an indefinite recoat interval.

**ANNEX H**  
**WHOLE SHIP SPECIFICATION**  
**Proposed by**

**SHERWIN WILLIAMS PROTECTIVE & MARINE COATINGS**

5. The Theoretical Spreading Rate (TSR) quoted in the table above is calculated from the coatings physical constants and makes no allowance for loss and assumes a totally smooth surface. The actual spreading rate achieved Practical Spreading Rate (PSR) is dependent upon many factors and in practice the factor used may vary from as little as 1.05 up to as much as 4+. It is usual for paint manufactures to use figures of 1.3 or 1.4 for estimating purposes but they always add the caveat that actual consumption achieved may vary due to such factors as surface profile, wastage due to material left in the can, weather conditions, skill of operator etc.

6. ~ = Use blast primer **Y**. when appropriate.

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**ANNEX J  
SUBMARINE SYSTEMS**

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number	BR1326
<b>S1. PRESSURE HULL &amp; EXTERNAL SUPERSTRUCTURE PRIMER</b> Untiled Areas								
<i>Chugoku Paints (UK) Ltd</i>								
UMEGUARD SX HS Black	1	150	5.13	28 hrs	7 days	232		EXT
<i>Hempel Paints Ltd</i>								
HEMPADUR 45880 MIO Black	2	175	4.6	8 hrs	30 days	198		EXT
<i>International Paint Ltd</i>								
INTERGARD 5000	1	175	4.68	12 hrs	2 months	155	99-000-5256	BLI (A5713)
<i>Jotun Paints (Europe) Ltd</i>								
PRIMASTIC UNIVERSAL R/T (STD)	1	200	3.75	10 hrs	#	194	99-509-7172	BLI (A1764)
<i>Maker Coating Systems Ltd</i>								
CORROLESS EPF	1	200	4.8	16 hrs	3 days	80	25-150-0972	BLI (A1773)
<i>PPG Protective &amp; Marine Coatings</i>								
SIGMACOVER 240 (7991)	1	175	5	5 hrs	30 days	153		EXT
<i>Sherwin-Williams Protective &amp; Marine Coatings</i>								
Macropoxy® M922m Mastic Aluminium	2	200	4.2	4 hrs	#	146	99-495-3873	EXT
<b>S2. ANTIFOULING SYSTEM(S)</b> Black Finish								
<b>FOUL RELEASE / DEFENCE (FRC / FD)</b> Sonar Dome								
<i>Chugoku Paints (UK) Ltd</i>								
CMP BIOCLEAN SG R	1	125	4.86	6 hrs	#	406		EXT
CMP BIOCLEAN R	1	100	6.5	4 hrs	24 hrs	278		EXT
CMP BIOCLEAN HB Pure silicone finish	1	150	3.55		#	261		EXT
<i>Hempel Paints Ltd</i>								
Primer: HEMPADUR 15570	2	125	4	8 hrs	30 days	414	99-943-1152	BLI (2701)
Tie coat: HEMPASIL NEXUS X-SEAL 27600	1	120	4.5	TBC	TBC	405	33-210-7052	EXT

**ANNEX J  
SUBMARINE SYSTEMS**

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number	BR1326
HEMPAGUARD X7 89900 Hydrogel c/w Biocides  Seek approval. Operational req'ment req'd due to additional H&S risks.	2	100	7	6 hrs	#	259		EXT
<i>International Paint Ltd</i>								
<u>Primer:</u> INTERSHIELD 300	2	125	4.8	7 hrs	14 days	313	99-151-9594	EXT
<u>Tie coat:</u> INTERSLEEK 737	1	100	6.5	4 hrs	7 days	325	99-396-1959	EXT
INTERSLEEK 1100SR Slime Release Fluoropolymer	1	150	4.8	24 hrs	#	248	99-615-7741	EXT
<i>PPG Protective &amp; Marine Coatings</i>								
<u>Mid coat:</u> SIGMASHIELD 610 (7978)	1	150	3.8	12 hrs	5 days	437		EXT
<u>Tie-coat:</u> SIGMAGLIDE 790 (7386)	1	150	5.3	12 hrs	5 days	187	99-406-0976	EXT
SIGMAGLIDE 1290 Low-speed slime release Silicone <u>SELF POLISHING (SPC)</u>	1	180	4.8	#	#	118	99-217-0543	EXT
<i>Chugoku Paints</i>								
SEA GRANDPRIX 660 HS (Fusion) Can be applied over Sherwin Williams M535	1	150	4.5	5 hrs	#	324		EXT
<i>Hempel Paints Ltd</i>								
OLYMPIC + 72950 Black	2	120	5.0	8 hrs	#	367		EXT
<i>International Paint Ltd</i>								
INTERSPEED 6400 Black	2	90	6.7	6 hrs	3 months	358		EXT
<i>PPG Protective &amp; Marine Coatings</i>								
SIGMA ECOFLEET 530 7385 Black	3	100	6.6	6 hrs	#	331		EXT
<b>S3. PRESSURE HULL &amp; EXTERNAL SUPERSTRUCTURE FINISH</b> Untiled areas								
<i>Hempel Paints Ltd</i>								
HEMPADUR 47182 Black	1	125	6	9 hrs	5 days	364		EXT
<i>International Paint Ltd</i>								
INTERGARD 5000 Black	1	125	6.56	12 hrs	2 months	155	99-000-5256	BLI (A5713)

**ANNEX J  
SUBMARINE SYSTEMS**

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number	BR1326
<u>Sherwin-Williams Protective &amp; Marine Coatings</u> Sherwin M535 Black	1	75	5.3	2	#	502	99-453-1479	EXT
<u>Maker Coating Systems Ltd/PPG</u> CORROLESS EPF Black	1	200	4.8	16 hrs	3 days	80	99-212-7555	BLI (A1773)
<b>S4. PERISCOPES &amp; MASTS</b>								
<b>Visible portions outside the submarine</b>								
Macropoxy® L425	1	35	17.1	5 hrs	#	346	99-777-8688	W
IRR Matt BS285	3							(AA0565g)
<b>S5. SUPERSTRUCTURE CASING</b> General steelwork								
<u>Hempel Paints Ltd</u>								
HEMPADUR 45880 MIO 12430	1	175	4.6	8 hrs	30 days	198	99-803-7233	EXT
HEMPADUR 47132 Black	1	125	6	9 hrs	3.5 days	364		EXT
<u>International Paint Ltd</u>								
INTERGARD 5000	1	175	4.68	12 hrs	2 months	155	99-000-5256	BLI (A5713)
INTERGARD 5000 Black	1	125	6.56	12 hrs	2 months	155		BLI (A5713)
<u>Sherwin-Williams Protective &amp; Marine Coatings</u>								
Macropoxy® M922M Mastic Aluminium	2	200	4.2	4 hrs	#	146	99-495-3873	EXT
Sherwin M535 Black	2	75	5.3	2	#	502	99-453-1479	EXT
<u>Maker Coating Systems Ltd/PPG</u>								
AMERLOCK 400C Black	2	125	7	16 hrs	#	106	17-106-6001	BLI (A0827)
<b>S6. WALKWAYS ON STEEL CASING</b> Black								
<u>Chugoku Paints (UK) Ltd</u>								
UMEGUARD HS SILVER	1	125	7.4	20 hrs	30 days	158	99-264-0145	CF, BLI (A1651)
CAMIDECK FINISH TYPE 1	2	190	2.84	16 hrs	#	374		CF/ BLI (A0953b)
<u>Hempel Paints Ltd</u>								
HEMPADUR 45880 MIO 12430	1	100	8.5	7 hrs	6 hrs*	168	99-803-7233	EXT
HEMPEL'S NON-SKID 45340 TYPE 1	2	200	3.2	6 hrs	30 days	347	99-480-7979	EXT

**ANNEX J  
SUBMARINE SYSTEMS**

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number	BR1326
<u>International Paint Ltd</u> INTERGARD 5000	1	150	5.47	12 hrs	4 days	155	99-000-5256	BLI (A5713)
<u>Maker Coating Systems Ltd</u> AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400	BLI (A0827)
AMERLOCK 400 NS TYPE 1	2	300	4	16 hrs	#	106	99-184-8542	EXT
<u>Sherwin-Williams Protective &amp; Marine Coatings</u> Macropoxy® C425V2	1	125	76.0	5 hrs	#	186	99-786-7949	BLI (A3736)
EPIDEK M377 TYPE 1	2	250	4	4 hrs	#	330	99-777-8692	EXT
<u>PPG Protective &amp; Marine Coatings</u> AMERCOAT 137	1	125	3.9	12 hrs	3 days	264		EXT
AMERCOAT 138G	1	1300	0.6	24 hrs	#	168	01-397-3806	EXT
<b>S7. INTERNAL DRY SPACES</b> White <u>Chugoku Paints (UK) Ltd</u> UMEGUARD HS SILVER	1	125	7.4	20 hrs	30 days	158	99-264-0145	CF, BLI (A1651)
<u>Hempel Paints Ltd</u> HEMUDUR PRIMER 18500	1	60	8.8	6 hrs	1 week	22	99-876-8090	
HEMUCRYL ENAMEL 58100	2	30	13.7	6 hrs	#	63	99-229-0228	BLI (A0823)
<u>International Paint Ltd</u> INTERGARD 5000	1	125	6.56	12 hrs	#	155	99-000-5256	BLI (A5713)
INTERCRYL 700	1	35	11.42	60 mins	#	50	99-979-7888	CI (A3217)
<u>Jotun Paints (Europe) Limited</u> WATERFINE PRIMER	2	100	4.6	1.5 hrs	#	100	99-462-9703	
WATERFINE TOPCOAT	2	50	7.2	1.5 hrs	#	195	99-372-9140	BCI (A1550)
<u>Maker Coating Systems Ltd</u> AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400	BLI (A0827)
AQUACOVER 500 (same products as AMERCOAT 300A)	2	50	10.4	16 hrs	#	0	17-108-8249	BLI (A0801)
<u>PPG Protective &amp; Marine Coatings</u>								

**ANNEX J  
SUBMARINE SYSTEMS**

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number	BR1326
SIGMA AQUACOVER 257150	2	75	6.6	4 hrs	#	31	99-321-6318	
SIGMA AQUACOVER 457520	2	50	6.8	6 hrs	#	17	99-225-7360	
<i><u>Sherwin-Williams Protective &amp; Marine Coatings</u></i>								
Macropoxy® C425V2	1	125	6.0	5 hrs	#	186	99-786-7949	BLI (A3736)
Sher-CryITM M770	2	25	15.6	3 hrs	#	78	99-231-3852	CI (A3274)
<b>S8. INTERIOR WET COMPARTMENTS</b> (Complete Re Preservation) White								
<i><u>Chugoku Paints (UK) Ltd</u></i>								
UMEGUARD HS SILVER	1	125	7.4	20 hrs	30 days	158	99-264-0145	CF, BLI (A1651)
<i><u>Hempel Paints Ltd</u></i>								
HEMPADUR 45880 MIO 12430	1	125	6.5	5 hrs	#	198	99-803-7233	
HEMPEL'S FC 48582	1	80	6.9	12 hrs	15 days	27		
<i><u>International Paint Ltd</u></i>								
INTERGARD 5000 Grey	1	125	6.56	24 hrs	#	155	99-000-5256	BLI (A5713)
INTERGARD 1735	1	50	11.2	12 hrs	#	132	99-615-7042	BLI (A4417)
<i><u>Jotun Paints (Europe) Limited</u></i>								
WATERFINE PRIMER Grey	1	100	4.6	1.5 hrs	#	60	99-462-9703	
WATERFINE PRIMER	1 or 2	40	11.6	1.5 hrs	#	60		
<i><u>Maker Coating Systems Ltd</u></i>								
AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400	BLI (A0827)
AQUACOVER 500 (same products as AMERCOAT 300A)	1	50	10.4	16 hrs	#	0	17-108-8249	BLI (A0801)
<i><u>PPG Protective &amp; Marine Coatings</u></i>								
SIGMACOVER 456 HS (7712)	2	75	9.7	8 hrs	#	277		
SIGMASHIELD 420	1	150	5.6	3.5 hrs	14 days	239		
<i><u>Sherwin-Williams Protective &amp; Marine Coatings</u></i>								
Macropoxy® C425V2	1	125	6.0	5 hrs	#	186	99-786-7949	BLI (A3736)
Macropoxy® M630V2	1	75	6.8	24 hrs	#	0	99-313-4440	BLI (A2973)



**ANNEX J  
SUBMARINE SYSTEMS**

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number	BR1326
<b>S9. GROUP EXHAUST VALVES</b> <i>Sherwin-Williams Protective &amp; Marine Coatings</i>								
Zinc-Clad II EU (previously Dox Anode D5V2)	1	75	8.7	24 hrs	#	470		W (A1984)
<b>S10. DSRV SEATING</b> <i>Sherwin-Williams Protective &amp; Marine Coatings</i>								
Macropoxy® C425V2	1	175	4.3	8 hrs	#	186	99-786-7949	BLI (A3736)
EPIDEK L716	2	75	6.8	4 hrs	#	420	99-225-0689	BLI (A1010)
<b>S11. INTERIOR PRESSURE HULL SURFACE</b> Emergency Cooling Tanks (NP approval req'd)								
<b>a) S Class Soft and Saddle Tanks</b> <i>Hempel Paints Ltd</i>								
GALVOSIL 15700 – Approved by Rolls Royce	1	75	8.53	36 hrs	#	434	99-593-8923	BLI (A1982)
<i>International Paint Ltd</i>								
INTERGARD 5000 – Pending Approval	2	125	6.56	12 hrs	3 months	155	99-000-5256	BLI (A5713)
<b>b) Trafalgar Class Hard Tank</b> <i>International Paint Ltd</i>								
INTERGARD 5000 – Pending Approval	2	125	6.56	12 hrs	3 months	155	99-000-5256	BLI (A5713)
<i>Sherwin-Williams Protective &amp; Marine Coatings</i>								
Macropoxy® C251 – Pending Approval	2	125	5.9	24 hrs	28 days	235	99-284-3464	BLI (A5025)
<i>PPG Protective &amp; Marine Coatings</i>								
SIGMA PHENGUARD 930 Primer -Approved by Rolls Royce	1	100	6.6	36 hrs	21 days	300	99-667-6118	
SIGMA PHENGUARD 935 Coating -Approved by Rolls Royce	1	100	6.6	24 hrs	21 days	300	99-925-0882	
SIGMA PHENGUARD 940 Finish -Approved by Rolls Royce	1	100	6.6	24 hrs	21 days	300	99-976-1657	

**ANNEX J  
SUBMARINE SYSTEMS**

<b>Proposed Systems/Materials</b>	<b>Number of Coats</b>	<b>NDFT per coat microns</b>	<b>Theo SR m<sup>2</sup>/litre</b>	<b>Min@ 20°C Recoat Interval</b>	<b>Max@ 20°C Recoat Interval</b>	<b>VOC gms per ltr</b>	<b>NATO Stock Number</b>	<b>BR1326</b>
SIGMAGUARD 795 (Maintenance)	2	150	5.0	10 hrs	21 days	273		
<u>Maker Coating Systems Ltd</u>								
CORROLESS EPF – Approved by Rolls Royce	1	200	4.8	16 hrs	3 days	80	25-150-0972	BLI (A1773)
CORROLESS RF35 – Approved by Rolls Royce	1	200	4.8	16 hrs	3 days	93	99-337-0778	BLI (A1772)
<b>c) <u>Trafalgar Class Jacket Tank</u></b>								
<u>International Paint Ltd</u>								
INTERGARD 5000 - Approved by Rolls Royce	2	125	6.56	12 hrs	3 months	155	99-000-5256	BLI (A5713)
<u>Maker Coating Systems Ltd</u>								
CORROLESS EPF – Approved by Rolls Royce	1	200	4.8	16 hrs	3 days	80	25-150-0972	BLI (A1773)
CORROLESS RF35 – Approved by Rolls Royce	1	200	4.8	16 hrs	3 days	93	99-337-0778	BLI (A1772)
AMERLOCK 400C – Approved by Rolls Royce	2	125	7	16 hrs	3 days	106	17-108-8248	BLI (A0827)
<u>Sherwin-Williams Protective &amp; Marine Coatings</u>								
Macropoxy® M922	2	200	4.2	4 hrs	#	143	99-834-8384	BLI (A1471)
Macropoxy® C251 – Pending Approval	2	125	5.9	24 hrs	28 days	235	99-284-3464	BLI (A5025)
<b><u>INTERIOR SURFACES</u></b>								
<b>d) <u>Vanguard Class High Pressure Decay Heat Removal Tank (HPDR)</u></b>								
<u>International Paint Ltd</u>								
INTERGARD 5000 – Pending Approval	2	125	6.56	12 hrs	3 months	155	99-000-5256	BLI (A5713)
<u>Sherwin-Williams Protective &amp; Marine Coatings</u>								
Macropoxy® C251 – Pending Approval	2	125	5.9	24 hrs	28 days	235	99-284-3464	BLI (A5025)
<u>Maker Coating Systems Ltd</u>								
CORROLESS EPF – Pending Approval	1	200	4.8	16 hrs	3 days	80	25-150-0972	BLI (A1773)
CORROLESS RF35 – Pending Approval	1	200	4.8	16 hrs	3 days	93	99-337-0778	BLI (A1772)
AMERLOCK 400C – Pending Approval	2	125	7	16 hrs	3 days	106	17-108-8248	BLI (A0827)

**ANNEX J  
SUBMARINE SYSTEMS**

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number	BR1326
<u>PPG Protective &amp; Marine Coatings</u>								
SIGMA PHENGUARD 930 Primer – Approved by Rolls Royce	1	100	6.6	36 hrs	21 days	315	99-667-6118	
SIGMA PHENGUARD 935 Coating – Approved by Rolls Royce	1	100	6.6	24 hrs	21 days	315	99-925-0882	
SIGMA PHENGUARD 940 Finish – Approved by Rolls Royce	1	100	6.6	24 hrs	21 days	315	99-976-1657	
SIGMAGUARD 795 (Maintenance)	2	1150	5.0	10 hrs	21 days	273		
<b><u>EXTERNAL SURFACES</u></b>								
<u>International Paint Ltd</u>								
INTERGARD 5000 – Pending Approval	2	125	6.56	12 hrs	3 months	155	99-000-5256	BLI (A5713)
<u>Sherwin-Williams Protective &amp; Marine Coatings</u>								
Macropoxy® C251 – Pending Approval	2	125	5.9	24 hrs	28 days	235	99-284-3464	BLI (A5025)
<u>Maker Coating Systems Ltd</u>								
CORROLESS EPF	1	200	4.8	16 hrs	3 days	80	25-150-0972	BLI (A1773)
CORROLESS RF35	1	200	4.8	16 hrs	3 days	93	99-337-0778	BLI (A1772)
AMERLOCK 400C	2	125	7	16 hrs	3 days	106	17-108-8248	BLI (A0827)
<u>PPG Protective &amp; Marine Coatings</u>								
SIGMA PHENGUARD 930 Primer - Approved by Rolls Royce	1	100	6.6	36 hrs	21 days	315	99-667-6118	
SIGMA PHENGUARD 935 Coating - Approved by Rolls Royce	1	100	6.6	24 hrs	21 days	315	99-925-0882	
SIGMA PHENGUARD 940 Finish - Approved by Rolls Royce	1	100	6.6	24 hrs	21 days	315	99-976-1657	
SIGMAGUARD 795 (Maintenance)	2	150	5.0	10 hrs	21 days	273		
<b>e) Astute Class</b>								
<u>Advanced Polymer Coatings</u>								
SILOXIRANE 2031LE – Approved by Rolls Royce	2	150	1.72	24 hrs	3 days	102		W (A1941)

**ANNEX J  
SUBMARINE SYSTEMS**

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number	BR1326
<u>PPG Protective &amp; Marine Coatings</u>								
SIGMA PHENGUARD 930 Primer - Approved by Rolls Royce	1	100	6.6	36 hrs	21 days	315	99-667-6118	
SIGMA PHENGUARD 935 Coating - Approved by Rolls Royce	1	100	6.6	24 hrs	21 days	315	99-925-0882	
SIGMA PHENGUARD 940 Finish - Approved by Rolls Royce	1	100	6.6	24 hrs	21 days	315	99-976-1657	
<b>S12. REACTOR COMPARTMENT</b> White								
<b>a) Interior surfaces</b>								
<u>International Paint Ltd</u>								
INTERGARD 5000	1	125	6.56	12 hrs	#	155	99-000-5256	BLI (A5713)
INTERGARD 1735	1	50	11.20	12 hrs	#	132	99-615-7042	BLI (A4417)
<u>Maker Coating Systems Ltd/PPG</u>								
AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400	BLI (A0827)
AQUACOVER 500 (same products as AMERCOAT 300A)	2	50	10.4	16 hrs	#	0	17-108-8249	BLI (A0801)
<u>Sherwin-Williams Protective &amp; Marine Coatings</u>								
Macropoxy® C400V3	1	200	9.3	5 hrs	#	257		BLI (A4607)
Macropoxy® H766	1	50	14	5 hrs	#	395	99-623-9946	BLI (A0565j)
HEAT RESISTANT ALUMINIUM >250°C								
<u>Firwood Paints Ltd</u>								
FIRGLO 64	1-2	25	15	4 hrs	#	620		CI (A3171)
<u>International Paint Ltd</u>								
INTERTHERM 50	1-2	25	18	12 hrs	#	495	99-969-0549	BLI (A3501)
<b>b) External surfaces</b>								
<b>Refer to S1. NOTE: -</b>								
<b>DFT not to exceed that stated in BR3939 Section 12.</b>								

**ANNEX J  
SUBMARINE SYSTEMS**

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number	BR1326
<b>S13. INTERIOR DECKS</b>								
<i>Sherwin-Williams Protective &amp; Marine Coatings</i>								
Macropoxy® C425V2	1	175	4.3	8 hrs	#	186	99-786-7949	BLI (A3736)
Macropoxy® M630V2	1	75	6.8	24 hrs	#	0	99-255-5237	BLI (A2973)
<i>International Paint Ltd</i>								
INTERGARD 5000	1	125	6.56	12 hrs	#	155	99-000-5256	BLI (A5713)
INTERGARD 1735	1	50	11.2	12 hrs	#	132	99-615-7042	BLI (A4417)
<i>Maker Coating Systems Ltd/PPG</i>								
AMERLOCK 400C	2	125	7	16 hrs	#	106	99-383-2335	BLI (A0827)
<b>S14. BATTERY COMPARTMENTS BS4800 00A01</b>								
<i>Chugoku Paints (UK) Ltd</i>								
UMEGUARD HS SILVER	1	125	7.12	20 hrs	7 days	108	99-264-0145	CF, BLI (A1651)
<i>Hempel Paints Ltd</i>								
HEMPADUR 45880 MIO 12430	1	150	5.5	5 hrs	#	198	99-803-7233	
HEMPADUR FC 48582	1	80	6.9	12 hrs	15 days	27	99-988-2715	
<i>International Paint Ltd</i>								
INTERGARD 5000	1	125	6.56	12 hrs	#	155	99-000-5256	BLI (A5713)
<i>Jotun Paints (Europe) Limited</i>								
POLYMASTIC 2000	1	200	4.8	9 hrs	#	80	99-395-8448	TBC (A2417)
POLYMASTIC 2000	1	200	4.8	9 hrs	#	80	99-665-9772	TBC (A2417)
<i>Maker Coating Systems Ltd/PPG</i>								
AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400	BLI (A0827)
AQUACOVER 500 (same products as AMERCOAT 300A)	1	50	10.4	16 hrs	#	0	99-535-8577	BLI (A0801)
<i>Sherwin-Williams Protective &amp; Marine Coatings</i>								
Macropoxy® C425V2	1	100	7.5	4 hrs	#	186	99-786-7949	BLI (A3736)
Macropoxy® M630V2	1	75	6.8	24 hrs	#	0	99-535-5105	BLI (A2973)

**ANNEX J  
SUBMARINE SYSTEMS**

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number	BR1326
<b>S15. MACHINERY SPACE BILGES &amp; MOUNTED MACHINERY RAFTS</b> <i>Chugoku Paints (UK) Ltd</i> UMEGUARD HS SILVER	1	125	6.5	15 hrs	10 days	108	99-264-0145	CF, BLI (A1651)
UMEGUARD HS GREY	1	125	6.5	15 hrs	10 days	158	99-126-9478	CF, BLI (A1650)
<u>Finish for Mounted Machinery Rafts</u> <i>Hempel Paints Ltd</i>								
HEMPADUR 45880 White	1	150	5.5	5 hrs	#	220	99-264-0387	
<u>Finish for Mounted Machinery Rafts</u> HEMUCRYL ENAMEL 58100 Canary BS381C 309 <i>International Paint Ltd</i>	1	30	13.7	6 hrs	#	70	99-858-1263	BLI (A0823)
INTERGARD 5000 <u>Finish for Mounted Machinery Rafts</u>	1	175	4.68	12 hrs	3 months	155	99-000-5256	BLI (A5713)
INTERCRYL 700 Yellow RAL 1018 <i>Jotun Paints (Europe) Limited</i>	1	35	11.42	6 hrs	#	50	99-774-1224	CI (A3217)
JOTACOTE UNIVERSAL	1	125	5.8	4 hrs	#	240		
JOTAPROOF TOPCOAT	1	60	10.5	4 hrs	#	310		
<u>Finish for Mounted Machinery Rafts</u> WATERFINE TOPCOAT Canary BS381C 309 <i>Maker Coating Systems Ltd</i>	1	40	9.2	8 hrs	#	105	99-352-4369	BLI (A1550)
CORROLESS EPF <u>Finish for Mounted Machinery Rafts</u>	1	200	4.8	16 hrs	3 days	80	25-150-0972	BLI (A1773)
AMERLOCK 400C <i>PPG Protective &amp; Marine Coatings</i>	1	125	7	16 hrs	#	106	99-974-7400	BLI (A0827)
SIGMA NOVAGUARD 840 7468 <u>Finish for Mounted Machinery Rafts</u>	1	400	2.5	24 hrs	2 months	13		

**ANNEX J  
SUBMARINE SYSTEMS**

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number	BR1326
SIGMA AQUACOVER 45 7250 Canary BS381C 309	1	50	6.8	6 hrs	#	17	99-182-2670	
<u>Sherwin-Williams Protective &amp; Marine Coatings</u>								
Macropoxy® M902	1	125	6.0	6.5	#	219	99-421-0972	BLI (A1781)
Macropoxy® L524	1	125	5.1	12 hrs	#	296	99-564-2934	BLI (A0661)
<u>Finish for Mounted Machinery Rafts</u>								
Sher-Cryl™ M770 Canary BS381C 309	1	25	15.6	3 hrs	#	78	99-726-4136	BLI (A3274)
<b>S16. BULK FUEL &amp; OIL, LUBE OIL, HYDRAULIC &amp; LP AIR TANKS - DEF STAN 80-97 (HIGH SOLIDS)</b>								
<u>Chugoku Paints (UK) Ltd CLEANKEEP 5000</u>	1	300	3.33	48 hrs	14 days	0		W (A5451)
<u>Hempel Paints Ltd</u>								
HEMPADUR 85671	3	100	6.8	36 hrs	5 days	320		
<u>International Paint Ltd</u>								
INTERLINE 850	2	125	6.08	8 hrs	30 days	212		LI (2052)
<u>Jotun Paints (Europe) Limited</u>								
TANGUARD STORAGE	2	125	5.0	10 hrs	30 days	261		
<u>Maker Coating Systems Ltd</u>								
CORROLESS EPF	1	200	4.8	16 hrs	3 days	80	25-150-0972	BLI (A1773)
CORROLESS RF35 Off White	1	200	4.8	16 hrs	3 days	93	25-150-0973	BLI (A1772)
<u>PPG Protective &amp; Marine Coatings</u>								
SIGMAGUARD CSF 650 (7443)	1	300	3.3	24 hrs	20 days	17		
<u>Sherwin-Williams Protective &amp; Marine Coatings</u>								
Macropoxy® M922	2	200	5.4	4 hrs	14 days	143	99-834-8384	BLI (A1471)
<b>S17. POTABLE WATER TANKS</b>								
<u>Chugoku Paints (UK) Ltd CLEANKEEP 5000</u>	1	300	3.33	48 hrs	7 days	0		W (A5451)
<u>Hempel Paints Ltd</u>								
HEMPADUR MULTI STRENGTH 35560	2	200	5	24 hrs	5 days	0		

**ANNEX J  
SUBMARINE SYSTEMS**

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number	BR1326
<i>International Paint Ltd</i>								
INTERLINE 925	1	300	3.35	48 hrs	3 days	1	99-131-8010	CF, BLI (A2236)
<i>Jotun Paints (Europe) Limited</i>								
TANKGUARD DW	2	150	6.7	12 hrs	5 days	2		BLI (A4764)
<i>Maker Coating Systems Ltd</i>								
CORROLESS EPF	1	200	4.8	16 hrs	3 days	80	25-150-0972	BLI (A1773)
CORROLESS RF35	1	200	4.8	16 hrs	3 days	93	99-337-0778	BLI (A1772)
<i>PPG Protective &amp; Marine Coatings</i>								
SIGMAGUARD CSF 650 7443	1	300	3.3	24 hrs	20 days	17		
<i>Sherwin-Williams Protective &amp; Marine Coatings</i>								
Macropoxy® P300	1	500	2.0	6 hrs	36 hrs	0		
<b>S18. SLOP DRAIN TANKS</b> (alternatives being sought)								
<i>Sherwin-Williams Protective &amp; Marine Coatings</i>								
Macropoxy® C251	2	125	5.9	24 hrs	28 days	235	99-284-3464	BLI (A5025)
<b>S19. AFFF TANKS</b> (supplied with Demin Water?)								
<i>Chugoku Paints (UK) Ltd</i>								
CLEANKEEP 5000	1	300	3.33	48 hrs	14 days	0		W (A5451)
<i>Hempel Paints Ltd</i>								
HEMPADUR MULTI STRENGTH 35560	2	250	3.33	24 hrs	5 days	0		
<i>International Paint Ltd</i>								
INTERLINE 704	2	125	5.0	23 hrs	21 days	385	99-555-6072	
<i>Jotun Paints (Europe) Limited</i>								
TANKGUARD DW	2	150	4.24	12 hrs	5 days	2		BLI (A4764)
<i>Maker Coating Systems Ltd</i>								
CORROLESS EPF	1	200	4.8	16 hrs	3 days	80	25-150-0972	BLI (A1773)
CORROLESS RF35	1	200	4.8	16 hrs	3 days	93	99-337-0778	BLI (A1772)
<i>PPG Protective &amp; Marine Coatings</i>								
SIGMAGUARD CSF 585 (7785)	1	300	3.33	24 hrs	20 days	5		



## ANNEX J SUBMARINE SYSTEMS

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number	BR1326
<u>Sherwin-Williams Protective &amp; Marine Coatings</u>								
Macropoxy® C251	2	125	5.9	24 hrs	28 days	235	99-284-3464	BLI (A5025)
<b>S20. DEMINERALISED WATER TANKS (Max Temperature 90°C)</b>  (Inc. Hotwells, Surge, Reserve Feed, Made Water, Reactor Water Storage Tanks)  <b>Consult 'DES SM PG-NavArch3b' for latest approved coatings.</b>  <u>Chugoku Paints (UK) Ltd</u>								
CLEANKEEP 5000 – RR approved – Check with ISM before use.	1	300	3.33	48 hrs	14 days	0		W (A5451)
<u>Hempel Paints Ltd</u>								
HEMPADUR 85671 – RR to approve	3	100	6.8	36 hrs	21 days	320		
<u>International Paint Ltd</u>								
INTERLINE 925 – RR not approved – Seeking clarification.	1	300	3.33	18 hrs	3 days	1		CF, BLI (A2236)
<u>Jotun Paints (Europe) Limited</u>								
TANKGUARD PLUS – RR to approve	3	100	7.0	20 hrs	21 days	300		BLI (A5394)
<u>Maker Coating Systems Ltd Limited to 60°C</u>								
CORROLESS EPF – Approved by Rolls Royce	1	200	4.8	16 hrs	3 days	80	25-150-0972	BLI (A1773)
CORROLESS RF35 – Approved by Rolls Royce	1	200	4.8	16 hrs	3 days	93	99-337-0778	BLI (A1772)
<u>PPG Protective &amp; Marine Coatings Limited to 60°C (specialist coating)</u>								
SIGMA PHENGUARD 930 Primer – Approved by Rolls Royce	1	100	6.6	36 hrs	21 days	315	99-667-6118	
SIGMA PHENGUARD 935 Coating – Approved by Rolls Royce	1	100	6.6	24 hrs	21 days	315	99-925-0882	
SIGMA PHENGUARD 940 Finish – Approved by Rolls Royce	1	100	6.6	24 hrs	21 days	315	99-976-1657	

**ANNEX J  
SUBMARINE SYSTEMS**

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number	BR1326
SIGMAGUARD 795 (Maintenance) – RR to approve	2	150	5.0	10 hrs	21 days	273		
<i>Sherwin-Williams Protective &amp; Marine Coatings</i>								
EPIGRIP Macropoxy® C251 – Previously approved by Rolls Royce	2	125	5.9	24 hrs	28 days	235	99-284-3464	BLI (A5025)
<b>S21. HOLDING PRIMER</b> (blasted steel work) <i>Chugoku Paints (UK) Ltd</i>								
NZ PRIMER S	1	25	15.9	16 hrs	#	641		
<i>Hempel Paints Ltd</i>								
HEMPADUR 15570 (damp surface tolerant) <i>International Paint Ltd</i>	1	40	13.5	#	#	414	99-943-1152	BLI (A2701)
INTERGARD 269 <i>Jotun Paints (Europe) Limited</i>	1	30	15.67	6 hrs	#	411	99-983-0743	BLI (A5954)
MUKI EPS <i>PPG Protective &amp; Marine Coatings</i>	1	20	12.5	7 hrs	7 days	610		BLI (A4527)
SIGMACOVER 280 (7417)	1	50	11.4	8 hrs	3 months	432	99-569-7697	
<i>Sherwin-Williams Protective &amp; Marine Coatings</i>								
Macropoxy® L574 Or	1	25	11.6	3 hrs	#	594	99-895-9894	BLI (A0565f)
Macropoxy® M111 (damp surface tolerant)	1	60	9.0	4 hrs	#	383	99-884-5957	W (A0662)
<b>S22. PRIMERS FOR NON-FERROUS METALS</b> <i>Chugoku Paints (UK) Ltd</i>								
Aluminium: ALP 500	1	50	11.6	10 hrs	#	414	99-967-8636	W (A1923)
Stainless Steel: UMEGUARD HS	1	125	7.4	20 hrs	30 days	158	99-126-9478	CF, BLI (A1650)
Zinc Spray & Galvanise: GALVANITE 200	1	30	14.1	4 hrs	30 days	587	99-290-5829	W (A1922)

**ANNEX J  
SUBMARINE SYSTEMS**

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number	BR1326
<u>Hempel Paints Ltd</u> <u>Aluminium, Stainless Steel, Zinc Spray &amp; Galvanise:</u> HEMUCRYL TIE COAT 18200 (1 pack) Or	1	20	19.0	24 hrs	30 mins	40	99-199-2908	BLI (A1779)
HEMPADUR 15553 (2 pack)	1	50	8.6	2 hrs	#	515	99-870-0653	
Indicator coat for FRP: HIGH PROTECT Cream	1	200	5.0	8 hrs	5 days	10	99-517-4318	
<u>International Paint Ltd</u> <u>Aluminium, Stainless steel, Zinc Spray &amp; Galvanise:</u> INTERGARD 269 Or	1	30	15.67	6 hrs	#	411	99-983-0743	BLI (A5954)
INTERGARD 276	1	30	15.67	6 hrs	#	411		
Indicator Coat for FRP: INTERLINE 925 Cream	1	300	5	18 hrs	3 days	1	99-216-8379	CF, BLI (A2236)
<u>Jotun Paints (Europe) Limited</u> <u>Aluminium, Stainless Steel, Zinc Spray &amp; Galvanise:</u>								
WATERFINE PRIMER	1	60	7.6	1.5 hrs	#	100	99-462-9708	
FRP Indicator Coat: PENGUARD HB White	2	150	3.6	8 hrs	#	390		
<u>Maker Coating Systems Ltd / PPG</u> <u>Aluminium &amp; Zinc Spray:</u> AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400	BLI (A0827)
<u>Stainless Steel &amp; Galvanise:</u> SIGMACOVER 280 (7417)	1	50	11.4	8 hrs	6 months	432	99-569-7697	
Indicator Coat for FRP: AMERLOCK 400C Green RAL 6011	2	125	7	16 hrs	#	106	17-120-4829	BLI (A0827)
<u>Sherwin-Williams Protective &amp; Marine Coatings</u> <u>Aluminium, Stainless Steel &amp; Galvanise:</u>								
Macropoxy® L425	1	35	17.1	5 hrs	#	346	99-777-8688	W (A0565g)
<u>Zinc Spray:</u> Macropoxy® L574	1	25	11.6	4 hrs	#	594	99-895-9894	BLI (A2026)
Indicator Coat for FRP: Macropoxy® C425V2 Off White	2	150	5	4 hrs	#	186	99-133-8714	BLI (A3736)

**ANNEX J  
SUBMARINE SYSTEMS**

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m <sup>2</sup> /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr	NATO Stock Number	BR1326
<b>S23. HIGH EROSION AREAS</b> <i>Hempel Paints Ltd</i> HEMPADUR MULTISTRENGTH GF35870 <i>International Paint Ltd</i>	1	300	2.9	16 hrs	30 days	180		BLI (A2816)
INTERZONE 505 <i>Maker Coating Systems Ltd</i>	1	300	3.0	6 hrs	4 days	157		
CORROLESS EPF <i>Sherwin-Williams Protective &amp; Marine Coatings</i>	2	200	4.8	16 hrs	3 days	80	99-212-7555	BLI (A1773)
Macropoxy® M922	1	400	4.2	#	#	143	99-834-8384	BLI (A1471)
<b>S24. BENEATH TILING</b> <i>Wessex Resins: UW46 Primer</i> UW 46 Adhesive							99-593-3008 99-297-7593	
<b>S25. SYSTEM FOR COATING NATURAL RUBBER MOUNTS</b> (applied by mount supplier not to be touched up once fitted) <i>Maker Coating Systems Ltd</i> GUMMIPAIN - ORANGE	2	35						BLI (A3672)
<b>S26. INTERNAL NUTS &amp; BOLTS AND TO FILL GAPS BETWEEN CANNING PLATES &amp; LEAD SHIELDING</b> <i>Maker Coating Systems Ltd</i> CORROLESS CCI 355 CORROSION INHIBITOR (HD GREASE)	1	N/A			N/A	N/A	99-676-5736	G (A2738)
<b>S27. SEA WATER TANKS</b> <i>Chugoku Paints (UK) Ltd</i> IMO PSPC UMEGUARD HS Or BANNOH 1500 <i>Hempel Paints Ltd</i> IMO PSPC	2	160	5.08	15 hrs	10 days	108	99-264-0145	CF, BLI (A1650)
	2	160	4.56	19 hrs	30 days	286		

**ANNEX J  
SUBMARINE SYSTEMS**

<b>Proposed Systems/Materials</b>	<b>Number of Coats</b>	<b>NDFT per coat microns</b>	<b>Theo SR m<sup>2</sup>/litre</b>	<b>Min@ 20°C Recoat Interval</b>	<b>Max@ 20°C Recoat Interval</b>	<b>VOC gms per ltr</b>	<b>NATO Stock Number</b>	<b>BR1326</b>
HEMPADUR QUATTRO	2	160	4.5	6 hrs	90 days	275		
<i>International Paint Ltd</i> IMO PSPC								
INTERGARD 5000	2	160	5.13	12 hrs	3 months	155	99-000-5256	BLI (A5713)
<i>Jotun Paints (Europe) Ltd</i> IMO PSPC								
BALLOXY HB LIGHT	2	160	5.16	10 hrs	#	150	17-108-7824	BLI (A1156)
<i>Maker Coating Systems Ltd</i>								
CORROLESS EPF	2	200	4.8	16 hrs	3 days	80	25-150-0972	BLI (A1773)
<i>Maker Coating Systems Ltd/ PPG</i> IMO PSPC								
SIGMACOVER 240 (7991)	2	160	5.4	5 hrs	30 days	153		
<i>Sherwin-Williams Protective &amp; Marine Coatings</i>								
Macropoxy® L524  (typical dft 125. care req'd on overlap at 160)	2	160	3.9	12 hrs	#	296	99-564-2934	BLI (A0661)
<b>S28. LILO / PAYLOAD BAY CHAMBER (Internal)</b>  <b>Consult 'SDA-P-ENG-SP1 for latest approved coatings.</b>								

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**ANNEX K**  
**WHOLE SHIP STOCK NUMBERS (NSNs)**

Material	Supplier	Pack Size	NSN
REMOVALL 520	Cirrus Systems Ltd		8010-99-871-5945
ALP 500	Chugoku Paints (UK) Ltd	5 litres	8010-99-967-8636
CAMSIL WB Black	Chugoku Paints (UK) Ltd	5 litres	8010-99-397-4388
CAMSIL WB GREY 541W 0224 Lt Weatherwork Grey BS381C 676	Chugoku Paints (UK) Ltd	5 litres	8010-99-327-9058
CAMSIL WB Lt Brunswick Green BS381C 225	Chugoku Paints (UK) Ltd	5 litres	8010-99-250-1029
CAMSIL WB Signal Red BS381C 537	Chugoku Paints (UK) Ltd	5 litres	8010-99-225-7163
GALVANITE 200 White	Chugoku Paints (UK) Ltd	5 litres	8010-99-995-4247
GALVANITE 200 White	Chugoku Paints (UK) Ltd	20 litres	8010-99-290-5829
NZ PRIMER S Red Oxide	Chugoku Paints (UK) Ltd	20 litres	8010-99-595-6056
UMEGUARD HS Grey	Chugoku Paints (UK) Ltd	5 litres	8010-99-126-9478
UMEGUARD HS White	Chugoku Paints (UK) Ltd	5 litres	8010-99-564-2409
HIGH PROTECT 35651 Cream	Hempel Paints Limited	2.5 litres	8010-99-517-4318
HEMPADUR 15550 Off White 11630	Hempel Paints Limited	5 litres	8010-99-870-0653
HEMPADUR 15550 Off White 11630	Hempel Paints Limited	20 litres	8010-99-700-4191
HEMPADUR 15570 Light Grey 12430	Hempel Paints Limited	5 litres	8010-99-943-1152
HEMPADUR 15570 Light Grey 12430	Hempel Paints Limited	20 litres	8010-99-170-5097
HEMPADUR 45143 White 10000	Hempel Paints Limited	5 litres	8010-99-602-7280
HEMPADUR 45143 Red 50630	Hempel Paints Limited	5 litres	8010-99-535-5832
HEMPADUR 45880 White	Hempel Paints Limited	5 litres	8010-99-264-0387
HEMPADUR 45880 MIO 12430	Hempel Paints Limited	5 litres	8010-99-803-7233
HEMPADUR 45880 MIO 12430	Hempel Paints Limited	20 litres	8010-99-479-5449
HEMPADUR 45143 GREEN BS4800 14C39	Hempel Paints Limited	5 litres	8010-99-471-1920
HEMPEL'S NON-SKID (NO AGGREGATE) 45143 BS381C 640 (Extra dark sea grey)	Hempel Paints Limited	5 litres	8010-99-879-5150
HEMPEL'S NON-SKID 45710 BS381C 640 (Extra dark sea grey) Type 2	Hempel Paints Limited	20 litres	8010-99-831-0343
HEMPEL'S NON-SKID 45340 BS381C 640 (Extra dark sea grey) Type 1	Hempel Paints Limited	20 litres	8010-99-213-1121
HEMPELS NON-SKID 45710 BLACK 19990	Hempel Paints Limited	20kg	8010-99-507-2851
HEMPELS DECK MARKING 453GB Black	Hempel Paints Limited	20 litres	8010-99-480-7979
HEMPELS ANTIFOULING OLYMPIC 8695 Black	Hempel Paints Limited	20 litres	8010-99-147-9828
HEMPELS UNDERCOAT 42460 White	Hempel Paints Limited	2.5 litres	8010-99-244-6752
HEMPELS DECK MARKING 453GB White	Hempel Paints Limited	5 litres	8010-99-323-1118
HEMPELS DECK MARKING 453GB Green BS381C 225	Hempel Paints Limited	5 litres	8010-99-986-6762
HEMPELS DECK MARKING 453GB Red BS381C 537	Hempel Paints Limited	5 litres	8010-99-724-9085
HEMPELS DECK MARKING 453GB Black	Hempel Paints Limited	5 litres	8010-99-351-4222
HEMPELS NON-SKID 45340 Grey BS3813 632 Type 1	Hempel Paints Limited	20 litres	8010-99-670-9581
HEMPELS SILICONE ALKYD FINISH 536GB Light Weatherwork Grey BS381C 676	Hempel Paints Limited	2.5 litres	8010-99-772-5448
HEMUDUR FINISH FC 48582 Black	Hempel Paints Limited	5 litres	8010-99-864-5046
HEMUDUR FINISH FC 48582 BS4800 00A01 (Ash Grey)	Hempel Paints Limited	5 litres	8010-99-988-2715
HEMUDUR FINISH FC 48582 BS4800 14C39 (Green)	Hempel Paints Limited	5 litres	8010-99-279-8221
HEMUDUR FINISH FC 48582 BS381C 676 (Light Weatherwork Grey)	Hempel Paints Limited	5 litres	8010-99-976-9118
HEMUCRYL ENAMEL 58100 Azure Blue BS381C 104	Hempel Paints Limited	5 litres	8010-99-382-4025
HEMUCRYL ENAMEL 58100 Black	Hempel Paints Limited	5 litres	8010-99-175-1334

**ANNEX K**  
**WHOLE SHIP STOCK NUMBERS (NSNs)**

Material	Supplier	Pack Size	NSN
HEMUCRYL ENAMEL 58100 Canary BS381C 309	Hempel Paints Limited	5 litres	8010-99-858-1263
HEMUCRYL ENAMEL 58100 Dark Blue BS4800 18C39	Hempel Paints Limited	5 litres	8010-99-290-5925
HEMUCRYL ENAMEL 58100 Lt Brunswick Green BS381C 225	Hempel Paints Limited	5 litres	8010-99-831-8959
HEMUCRYL ENAMEL 58100 Mid Brunswick Green BS381C 226	Hempel Paints Limited	5 litres	8010-99-162-2531
HEMUCRYL ENAMEL 58100 Signal Red BS381C 537	Hempel Paints Limited	5 litres	8010-99-250-8046
HEMUCRYL ENAMEL 58100 Wedgwood Blue BS4800 18D43	Hempel Paints Limited	5 litres	8010-99-317-6235
HEMUCRYL ENAMEL 58100 Ash Grey BS4800 00A01	Hempel Paints Limited	5 litres	8010-99-660-9288
HEMUCRYL ENAMEL 58100 Golden Brown BS381C 414	Hempel Paints Limited	5 litres	8010-99-562-6381
HEMUCRYL ENAMEL 58100 White	Hempel Paints Limited	5 litres	8010-99-299-0228
HEMUCRYL PRIMER 18100	Hempel Paints Limited	5 litres	8010-99-909-6026
HEMUCRYL TI-COAT 18200 Red 50710	Hempel Paints Limited	5 litres	8010-99-199-2908
HEMUDUR 18500 Grey 12170	Hempel Paints Limited	20 litres	8010-99-867-8090
INTERCRYL 506 GREY WPA300	International Coatings Ltd	5 litres	8010-99-147-1269
INTERCRYL 507 Grey BS 4800 00A01	International Coatings Ltd	5 litres	8010-99-365-4243
INTERCRYL 700 Grey BS 4800 00A01	International Coatings Ltd	5 litres	8010-99-799-8832
INTERCRYL 700 Azure Blue BS381C 104	International Coatings Ltd	5 litres	8010-99-551-3792
INTERCRYL 700 Golden Brown BS381C 414	International Coatings Ltd	5 litres	8010-99-314-8294
INTERCRYL 700 Mariner Blue BS4800 18C39	International Coatings Ltd	5 litres	8010-99-551-3791
INTERCRYL 700 Mid Brunswick Green BS381C 226	International Coatings Ltd	5 litres	8010-99-812-5614
INTERCRYL 700 Wedgewood Blue BS4800 18D43	International Coatings Ltd	5 litres	8010-99-248-4598
INTERCRYL 700 White QYZ028	International Coatings Ltd	5 litres	8010-99-979-7888
INTERCRYL 700 Yellow RAL 1018	International Coatings Ltd	5 litres	8010-99-774-1224
INTERFINE 629 HS Black	International Coatings Ltd	5 litres	8010-99-375-3200
INTERFINE 629 HS Signal Red BS 381C 537	International Coatings Ltd	5 litres	8010-99-535-9034
INTERFINE 629 HS Lt Brunswick Green BS 381C 225	International Coatings Ltd	5 litres	8010-99-957-7410
INTERFINE 629 Light Weatherwork Grey BS381C 676	International Coatings Ltd	5 litres	8010-99-664-5391
INTERFINE 878 Light Weatherwork Grey BS381C 676	International Coatings Ltd	5 litres	8010-99-274-4682
INTERFINE 878 Black	International Coatings Ltd	5 litres	8010-99-907-6683
INTERFINE 979 GREEN	International Coatings Ltd	5 litres	8010-99-729-7357
INTERFINE 979 WHITE	International Coatings Ltd	5 litres	8010-99-168-7337
INTERGARD 263 Tie Coat Light Grey	International Coatings Ltd	20 litres	8010-99-133-3854
INTERGARD 269 PROTECTIVE PRIMER	International Coatings Ltd	20 litres	8010-99-983-0743
INTERGARD1735 WB Dark Sea Grey BS381C 640	International Coatings Ltd	5 litres	8010-99-702-0607
INTERGARD 1735 WB Green BS4800 14C39	International Coatings Ltd	5 litres	8010-99-483-1994
INTERGARD 1735 WB Ash Grey BS4800 00A01	International Coatings Ltd	5 litres	8010-99-255-0527
INTERGARD 740 Dark Sea Grey BS381C 640	International Coatings Ltd	5 litres	8010-99-182-2627
INTERGARD 740 Black	International Coatings Ltd	5 litres	8010-99-488-7443
INTERGARD 740 Red	International Coatings Ltd	5 litres	8010-99-377-5457
INTERGARD 740 White	International Coatings Ltd	5 litres	8010-99-773-8674
INTERGARD 740 Green	International Coatings Ltd	5 litres	8010-99-262-7677
INTERGARD 740 Yellow	International Coatings Ltd	5 litres	8010-99-969-1037
INTERGARD 740 Black	International Coatings Ltd	20 litres	8010-99-285-3824
INTERGARD 840 Series Buff	International Coatings Ltd	20 litres	8010-99-909-6023
INTERGARD 840 White	International Coatings Ltd	5 litres	8010-99-279-8277
INTERGARD 5000 Green	International Coatings Ltd	5 litres	8010-99-555-1384
INTERGARD 5000 Ash Grey BS 4800 00A01	International Coatings Ltd	5 litres	8010-99-000-5256



**ANNEX K**  
**WHOLE SHIP STOCK NUMBERS (NSNs)**

Material	Supplier	Pack Size	NSN
INTERLAC 846 Light Weatherwork Grey BS381C 676	International Coatings Ltd	2.5 litres	8010-99-700-8410
INTERLINE 850	International Coatings Ltd	20 litres	8010-99-690-8481
INTERLINE 925	International Coatings Ltd	20 litres	8010-99-131-8010
INTERLINE 925 Cream	International Coatings Ltd	20 litres	8010-99-216-8379
INTERSHEEN AQUACOAT Ash Grey BS4800 00A01	International Coatings Ltd	5 litres	8010-99-365-4243
INTERSHIELD 851 Black	International Coatings Ltd	10 litres	8010-99-371-6753
INTERSHIELD 851 Extra Dark Sea Grey BS381C 640	International Coatings Ltd	20 litres	8010-99-391-0953
INTERSHIELD 851 Repair Kit Extra Dark Sea Grey BS381C 640	International Coatings Ltd	-	8010-99-325-0579
INTERSHIELD 852 Black	International Coatings Ltd	5 litres	8010-99-250-1864
INTERSHIELD 852 White	International Coatings Ltd	5 litres	8010-99-968-9269
INTERSHIELD 852 Red	International Coatings Ltd	5 litres	8010-99-666-9269
INTERSHIELD 852 Green	International Coatings Ltd	5 litres	8010-99-871-6360
INTERSHIELD 852 Dark Admiralty Grey BS 381C 632	International Coatings Ltd	5 litres	8010-99-149-8996
INTERSHIELD 852 Extra Dark Sea Grey BS 381C 640	International Coatings Ltd	5 litres	8010-99-583-1344
INTERSHIELD 852 Repair Kit Dark Admiralty Grey BS381C 632	International Coatings Ltd	5 litres	8010-99-993-9328
INTERSLEEK 737	International Coatings Ltd	10 litres	8010-99-918-1064
INTERSLEEK 1100SR Red	International Coatings Ltd	10 litres	8010-99-841-5218
INTERSLEEK 1100SR Black	International Coatings Ltd	10 litres	8010-99-615-7741
INTERSMOOTH 7460	International Coatings Ltd	20 litres	8010-99-216-8317
INTERSPEED 340 Black	International Coatings Ltd	20 litres	8010-99-874-3193
INTERSPEED 642 Black	International Coatings Ltd	20 litres	8010-99-792-1990
INTERSPEED 6400	International Coatings Ltd	20 litres	8010-33-209-1579
BALLOXY HB LIGHT Green	Jotun Paints (Europe) Limited	-	8010-17-108-7825
JOTA ARMOUR AS Extra Dark Sea Grey BS381C 640	Jotun Paints (Europe) Limited	20 litres	8010-99-226-7300
JOTA ARMOUR	Jotun Paints (Europe) Limited	10 litres	8010-99-690-8235
JOTAMASTIC 87	Jotun Paints (Europe) Limited	5 litres	8010-99-549-5820
MARATHON IQ Red	Jotun Paints (Europe) Limited	5 litres	8010-99-958-6838
PENGUARD HB	Jotun Paints (Europe) Limited	5 litres	8010-99-958-9132
VINYGUARD SILVERGREY	Jotun Paints (Europe) Limited	5 litres	8010-99-212-5888
WATERFINE PRIMER Lt Grey	Jotun Paints (Europe) Limited	5 litres	8010-99-462-9708
WATERFINE TOPCOAT Azure Blue BS381C 104	Jotun Paints (Europe) Limited	5 litres	8010-99-186-9127
WATERFINE TOPCOAT Black	Jotun Paints (Europe) Limited	5 litres	8010-99-877-1641
WATERFINE TOPCOAT Dark Blue BS4800 18C39	Jotun Paints (Europe) Limited	5 litres	8010-99-347-9130
WATERFINE TOPCOAT Lt Brunswick Green BS381C 225	Jotun Paints (Europe) Limited	5 litres	8010-99-131-6457
WATERFINE TOPCOAT Lt Weatherwork Grey BS381C 676	Jotun Paints (Europe) Limited	5 litres	8010-99-989-6214
WATERFINE TOPCOAT Mid Brunswick Green BS381C 226	Jotun Paints (Europe) Limited	5 litres	8010-99-873-4271
WATERFINE TOPCOAT Signal Red BS381C 537	Jotun Paints (Europe) Limited	5 litres	8010-99-921-4654

**ANNEX K**  
**WHOLE SHIP STOCK NUMBERS (NSNs)**

Material	Supplier	Pack Size	NSN
WATERFINE TOPCOAT Wedgwood Blue BS4800 18D43	Jotun Paints (Europe) Limited	5 litres	8010-99-212-5714
WATERFINE TOPCOAT White	Jotun Paints (Europe) Limited	5 litres	8010-99-372-9140
WATERFINE TOPCOAT Golden Brown	Jotun Paints (Europe) Limited	5 litres	8010-99-997-4563
AMERON PSX 700 Green BS4800 14C39	Maker Coating Systems Ltd	5 litres	8010-17-113-6169
AMERON PSX 700 White	Maker Coating Systems Ltd	5 litres	8010-17-113-5689
AMERLOCK 400C	Maker Coating Systems Ltd	20 litres	8010-99-974-7400
AMERLOCK 400C White	Maker Coating Systems Ltd	4 litres	8010-17-108-8248
AMERLOCK 400C Ash Grey BS4800 00A01	Maker Coating Systems Ltd	4 litres	8010-99-958-6062
AMERLOCK 400C SAXE BLUE	Maker Coating Systems Ltd	4 litres	8010-17-117-6678
AMERLOCK 400C OXFORD BLUE	Maker Coating Systems Ltd	4 litres	8010-17-117-6677
AMERLOCK 400C Green RAL 6011	Maker Coating Systems Ltd	4 litres	8010-17-120-4829
AMERLOCK 400 NS Extra Dark Sea Grey BS381C 640	Maker Coating Systems Ltd	25 litres	8010-99-40-6452
SIGMA THINNER 21-06	Maker Coating Systems Ltd	5 litres	8010-17-117-6680
SIGMA THINNER 60-12	Maker Coating Systems Ltd	5 litres	8010-17-117-6681
AQUACOVER 45 7250 Azure Blue BS381C 104	Maker Coating Systems Ltd	5 litres	8010-99-863-5457
AQUACOVER 45 7250 Ash Grey B4800 00A01	Maker Coating Systems Ltd	5 litres	8010-99-277-8693
AQUACOVER 45 7250 Black	Maker Coating Systems Ltd	5 litres	8010-99-500-7412
AQUACOVER 45 7250 Canary BS381C 309	Maker Coating Systems Ltd	5 litres	8010-99-182-2670
AQUACOVER 45 7250 Dark Blue BS4800 18C39	Maker Coating Systems Ltd	5 litres	8010-99-957-7697
AQUACOVER 45 7250 Lt Brunswick Green BS381C 225	Maker Coating Systems Ltd	5 litres	8010-99-338-4734
AQUACOVER 45 7250 Lt Weatherwork Grey B381C 676	Maker Coating Systems Ltd	5 litres	8010-99-236-5744
AQUACOVER 45 7250 Mid Brunswick Green BS381C 226	Maker Coating Systems Ltd	5 litres	8010-99-269-1301
AQUACOVER 45 7250 Signal Red BS381C 537	Maker Coating Systems Ltd	5 litres	8010-99-880-0100
AQUACOVER 45 7250 Wedgwood Blue BS4800 18D43	Maker Coating Systems Ltd	5 litres	8010-99-471-2071
AQUACOVER 45 7250 White	Maker Coating Systems Ltd	5 litres	8010-99-225-7360
AQUACOVER 25 7150 Buff	Maker Coating Systems Ltd	5 litres	8010-99-321-6318
AQUACOVER 500 White (Exact same product as AMERCOAT 300A)	Maker Coating Systems Ltd	5 litres	8010-17-108-8249
CORROLESS EPF Buff	Maker Coating Systems Ltd	5 litres	8010-25-150-0972
CORROLESS RF35 White	Maker Coating Systems Ltd	5 litres	8010-25-150-0973
CORROLESS RF35 Grey	Maker Coating Systems Ltd	5 litres	8010-99-337-0778
SIGMACOVER 280 LT 7417 Yellow	Maker Coating Systems Ltd	20 litres	8010-99-569-7697
SIGMACOVER 525	Maker Coating Systems Ltd	20 litres	8010-99-322-9677
SIGMA ECOFLEET 530 Red Brown	Maker Coating Systems Ltd	20 litres	8010-99-153-6929
SIGMA ECOFLEET 530 Brown	Maker Coating Systems Ltd	20 litres	8010-99-996-2266
SIGMA ECOFLEET 530 Black	Maker Coating Systems Ltd	20 litres	8010-99-375-0408
SIGMA EDGEGUARD 5428 White	Maker Coating Systems Ltd	5 litres	8010-99-495-3513
SIGMAGLIDE 790	Maker Coating Systems Ltd	20 litres	8010-99-406-0976
SIGMAGLIDE 990	Maker Coating Systems Ltd	5 litres	8010-99-429-9323
SIGMASHIELD 420 7951 Ash Grey BS4800 00A01	Maker Coating Systems Ltd	5 litres	8010-99-549-3974
SIGMASHIELD 420 7951 Light Weatherwork Grey BS381C 676	Maker Coating Systems Ltd	5 litres	8010-99-723-3658
SIGMASHIELD 220 7922 Light Green	Maker Coating Systems Ltd	5 litres	8010-99-403-5015
SIGMASHIELD 280 7417 Yellow	Maker Coating Systems Ltd	5 litres	8030-99-354-0443
SPC-203 (Sea to Sky) Paint Remover	Maker Coating Systems Ltd	5 litres	8010-20-003-3432
Macropoxy® M535	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-453-1479
Macropoxy® M630V2 Light Weatherwork Grey BS381C 676	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-131-6908

**ANNEX K**  
**WHOLE SHIP STOCK NUMBERS (NSNs)**

<b>Material</b>	<b>Supplier</b>	<b>Pack Size</b>	<b>NSN</b>
Macropoxy® M630V2 Green BS4800 14C39	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-255-5237
Macropoxy® M630V2 Ash Grey BS4800 00A01	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-535-5105
Macropoxy® M630V2 Black	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-739-8402
Macropoxy® ARD M630V2 White	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-313-4440
Sher-Cryl™ M770 Ash Grey BS4800 00A01	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-517-5228
Sher-Cryl™ M770 Black	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-768-1426
Sher-Cryl™ M770 Azure Blue BS381C 104	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-878-8150
Sher-Cryl™ M770 Canary BS381C 309	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-726-4136
Sher-Cryl™ M770 Dark Blue BS4800 18C39	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-723-3650
Sher-Cryl™ M770 Lt Brunswick Green BS381C 225	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-313-9445
Sher-Cryl™ M770 Mid Brunswick Green BS381C 226	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-862-5170
Sher-Cryl™ M770 Signal Red BS381C 537	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-225-7155
Sher-Cryl™ M770 Light Weatherwork Grey BS381C 676	Sherwin-Williams Protective & Marine Coatings Paints	5 litres	8010-99-833-4765
Sher-Cryl™ M770 Wedgwood Blue BS4800 18D43	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-723-3651
Sher-Cryl™ M770 White	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-231-3852
Macropoxy® M262	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-133-8713
EPIDEK M337	Sherwin-Williams Protective & Marine Coatings	2 litres	8010-99-087-4902
EPIDEK M339	Sherwin-Williams Protective & Marine Coatings	2 litres	8010-99-383-4334
EPIDEK M339NA	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-845-5203
EPIDEK M339 Extra Dark Sea Grey	Sherwin-Williams Protective & Marine Coatings	20 litres	8010-99-215-4495
EPIDEK M377 Dark Admiralty Grey BS381C 632	Sherwin-Williams Protective & Marine Coatings	4 litres	8010-99-777-8689
Macropoxy® C425V2 Light Grey	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-786-7949
Macropoxy® C425V2 Light Grey	Sherwin-Williams Protective & Marine Coatings	20 litres	8010-99-126-6377
Macropoxy® C425V2 Off White	Sherwin-Williams Protective & Marine Coatings	20 litres	8010-99-133-8714
Macropoxy® H766 Green BS4800 14C39	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-501-4661
Macropoxy® H766 White	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-623-9946
Macropoxy® L425	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-777-8688
Macropoxy® L524 Aluminium	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-216-0021
Macropoxy® L524 White	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-564-2934

**ANNEX K**  
**WHOLE SHIP STOCK NUMBERS (NSNs)**

<b>Material</b>	<b>Supplier</b>	<b>Pack Size</b>	<b>NSN</b>
Macropoxy® L574	Sherwin-Williams Protective & Marine Coatings	20 litres	8010-99-895-9894
Macropoxy® M111 Red	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-884-5957
Macropoxy® M902 Aluminium	Sherwin-Williams Protective & Marine Coatings	2.5 litres	8010-99-421-0972
Macropoxy® M922	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-834-8384
Macropoxy® C251 White	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-284-3464
Kem-Kromik A165 Silicone Alkyd Light Weatherwork Grey BS381C 676	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-982-2604
Sherwin M255 BLACK	Sherwin-Williams Protective & Marine Coatings	20 litres	8010-99-417-8341
Sherwin M255 VANDYKE BROWN BS4800 08B29	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-905-0772
Acrolon™ C750V2 Light Weatherwork Grey BS381C 676	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-212-2175
Sherwin M671 Medium Grey	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-872-1746
Sherwin M671 Medium Grey	Sherwin-Williams Protective & Marine Coatings	20 litres	8010-99-862-7354

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**ANNEX L**  
**SUBMARINE STOCK NUMBERS (NSNs)**

<b>Material</b>	<b>Supplier</b>	<b>VOC Compliant</b>	<b>NSN</b>	<b>BR1326</b>
ALP 500	Chugoku Paints (UK) Ltd	414 g/l	8010-99-967-8636	W (A1923)
GALVANITE 200 White	Chugoku Paints (UK) Ltd	495 g/l	8010-99-995-4247	W (A1922)
GALVANITE 200 White	Chugoku Paints (UK) Ltd	495 g/l	8010-99-290-5829	W (A1922)
UMEGUARD HS	Chugoku Paints (UK) Ltd	158 g/l	8010-99-264-0145	CF BLI (A1650)
UMEGUARD HS Grey	Chugoku Paints (UK) Ltd	158 g/l	8010-99-126-9478	CF BLI (A1650)
UMEGUARD HS Silver	Chugoku Paints (UK) Ltd	158 g/l	8010-99-264-0145	CF BLI (A1650)
UMEGUARD HS White	Chugoku Paints (UK) Ltd	158 g/l	8010-99-564-2409	CF BLI (A1650)
HEMPADUR 15570 LIGHT GREY 12430	Hempel UK Limited	430 g/l	8010-99-170-5097	BLI (A2701)
HEMPADUR 15570	Hempel UK Limited	430 g/l	8010-99-943-1152	BLI (A2701)
HEMPADUR 15553 Off White 11630 5ltr	Hempel UK Limited	515 g/l	8010-99-870-0653	
HEMPADUR 15553 Off White 11630 20ltr	Hempel UK Limited	515 g/l	8010-99-700-4191	
HEMPASIL NEXUS X-SEAL 27600	Hempel UK Limited	403 g/l	8010-33-210-7052	
HEMUDUR 18500 Grey 12170	Hempel UK Limited	85 g/l	8010-99-867-8090	
HEMPADUR 45880 MIO 12430	Hempel UK Limited	198 g/l	8010-99-803-7233	
HEMPADUR 45880 White	Hempel UK Limited	220 g/l	8010-99-264-0387	
HEMPADUR FC 48582 BS4800 14C39 (Green)	Hempel UK Limited	25 g/l	8010-99-279-8221	
HEMPADUR FC 48582 BS381C 676 (Light Weatherwork Grey)	Hempel UK Limited	25 g/l	8010-99-976-9118	
HEMPADUR FC 48582 Black	Hempel UK Limited	25 g/l	8010-99-864-5046	
HEMPADUR FC 48582 BS4800 00A01	Hempel UK Limited	25 g/l	8010-99-988-2715	
HEMPELS NON-SKID 45340 Type 1 Black	Hempel UK Limited	347 g/l	8010-99-480-7979	
HEMUCRYL TIE-COAT 18200 Red 50710	Hempel UK Limited	118 g/l	8010-99-199-2908	
HEMPELS GALVOSIL 15700	Hempel UK Limited	535 g/l	8010-99-593-8923	BLI (A1982)
HEMUCRYL ENAMEL 58100 White	Hempel UK Limited	150 g/l	8010-99-299-0228	BLI (A0823)
HEMUCRYL ENAMEL 58100 Dark Blue BS4800 18C39	Hempel UK Limited	150 g/l	8010-99-290-5925	BLI (A0823)
HEMUCRYL ENAMEL 58100 Wedgewood Blue BS4800 18D43	Hempel UK Limited	150 g/l	8010-99-317-6235	BLI (A0823)
HEMUCRYL ENAMEL 58100 Canary BS381C 309	Hempel UK Limited	150 g/l	8010-99-858-1263	BLI (A0823)
HEMUCRYL ENAMEL 58100 Lt Brunswick Green BS381C 225	Hempel UK Limited	150 g/l	8010-99-831-8959	BLI (A0823)
HEMUCRYL ENAMEL 58100 Azure Blue BS381C 104	Hempel UK Limited	150 g/l	8010-99-382-4025	BLI (A0823)
HEMUCRYL ENAMEL 58100 Mid Brunswick Green BS381C 226	Hempel UK Limited	150 g/l	8010-99-162-2531	BLI (A0823)
HEMUCRYL ENAMEL 58100 BS4800 00A01	Hempel UK Limited	150 g/l	8010-99-660-9288	BLI (A0823)
HEMUCRYL ENAMEL 58100 Signal Red BS381C 537	Hempel UK Limited	150 g/l	8010-99-250-8046	BLI (A0823)
HEMUCRYL ENAMEL 58100 Black	Hempel UK Limited	150 g/l	8010-99-175-1334	BLI (A0823)

**ANNEX L**  
**SUBMARINE STOCK NUMBERS (NSNs)**

Material	Supplier	VOC Compliant	NSN	BR1326
HEMUCRYL ENAMEL 58100 BS381C 676 (Light Weatherwork Grey)	Hempel UK Limited	150 g/l	8010-99-149-2439	BLI (A0823)
HEMUCRYL PRIMER 18100	Hempel UK Limited	200 g/l	8010-99-909-6026	
INTERGARD 269	International Paint Ltd	411 g/l	8010-99-983-0743	BLI (A5954)
INTERGARD FWA274/FWA278 Red	International Paint Ltd	166 g/l	8010-99-337-6056	BLI (A1783)
INTERGARD 5000 BS4800 00A01 Dawn Grey	International Paint Ltd	155 g/l	8010-99-000-5256	BLI (A5713)
INTERGARD 1735	International Paint Ltd		8010-99-615-7042	
INTERGARD 1735 WB QDE000/QDA049 BS4800 00A01	International Paint Ltd	45 g/l	8010-99-255-0527	BLI (A4417)
INTERGARD 1735 WB Dark Sea Grey BS381C 640	International Paint Ltd	132 g/l	8010-99-702-0607	BLI (A4417)
INTERGARD 1735 WB Green BS4800 14C39	International Paint Ltd	132 g/l	8010-99-483-1994	BLI (A4417)
INTERGARD 740 ECY999/A Black	International Paint Ltd	420 g/l	8010-99-285-3824	BLI (A2110)
INTERCRYL 506 GREY WPA300	International Paint Ltd	120 g/l	8010-99-147-1269	W (A1152)
INTERCRYL 700 White WXB000	International Paint Ltd	50 g/l	8010-99-979-7888	CI (A3217)
INTERCRYL 700 Yellow RAL 1018	International Paint Ltd	50 g/l	8010-99-774-1224	CI (A3217)
INTERLINE 704	International Paint Ltd	425 g/l	8010-99-555-6072	
INTERLINE 925	International Paint Ltd	1 g/l	8010-99-131-8010	CF, BLI (A2236)
INTERSHIELD 300	International Paint Ltd	386 g/l	8010-99-151-9594	
INTERSLEEK 737	International Paint Ltd	377 g/l	8010-99-396-1959	
INTERSLEEK 1100SR	International Paint Ltd		8010-99-615-7741	
INTERTHERM 50	International Paint Ltd	495 g/l	8010-99-969-0549	BLI (A3501)
PRIMASTIC UNIVERSAL MD	Jotun Paints (Europe) Limited	240 g/l	8010-99-509-7172	BLI (A1764)
POLYMASTIC 2000	Jotun Paints (Europe) Limited	80 g/l	8010-99-395-8448	TBC (A2417)
POLYMASTIC 2000	Jotun Paints (Europe) Limited	80 g/l	8010-99-665-9772	TBC (A2417)
WATERFINE PRIMER	Jotun Paints (Europe) Limited	60 g/l	8010-99-462-9703	
WATERFINE PRIMER Light Grey	Jotun Paints (Europe) Limited	50 g/l	8010-99-462-9708	
WATERFINE TOPCOAT Signal Red BS381C 537	Jotun Paints (Europe) Limited	197 g/l	8010-99-921-4654	BCI (A1550)
WATERFINE TOPCOAT Lt Brunswick Green BS381C 225	Jotun Paints (Europe) Limited	197 g/l	8010-99-131-6457	BCI (A1550)
WATERFINE TOPCOAT White	Jotun Paints (Europe) Limited	197 g/l	8010-99-372-9140	BCI (A1550)
WATERFINE TOPCOAT Wedgwood Blue BS4800 18D43	Jotun Paints (Europe) Limited	197 g/l	8010-99-212-5714	BCI (A1550)
WATERFINE TOPCOAT Azure Blue BS381C 104	Jotun Paints (Europe) Limited	197 g/l	8010-99-186-9127	BCI (A1550)
WATERFINE TOPCOAT Dark Blue BS4800 18C39	Jotun Paints (Europe) Limited	197 g/l	8010-99-347-9130	BCI (A1550)
WATERFINE TOPCOAT Lt Weatherwork Grey BS381C 676	Jotun Paints (Europe) Limited	197 g/l	8010-99-989-6214	BCI (A1550)
WATERFINE TOPCOAT CANARY BS381C 309	Jotun Paints (Europe) Limited	197 g/l	8010-99-352-4369	BCI (A1550)
WATERFINE TOPCOAT Black	Jotun Paints (Europe) Limited	197 g/l	8010-99-877-1641	BCI (A1550)

**ANNEX L**  
**SUBMARINE STOCK NUMBERS (NSNs)**

<b>Material</b>	<b>Supplier</b>	<b>VOC Compliant</b>	<b>NSN</b>	<b>BR1326</b>
WATERFINE TOPCOAT Mid Brunswick Green BS381C 226	Jotun Paints (Europe) Limited	197 g/l	8010-99-873-4271	BCI (A1550)
WATERFINE TOPCOAT Ash Grey BS4800 00A01	Jotun Paints (Europe) Limited	197 g/l	8010-99-272-2784	BCI (A1550)
SIGMA AQUACOVER 45 7250 Black	Maker Coating Systems Ltd	17g/l	8010-99-500-7412	
SIGMA AQUACOVER 45 7250 Mid Brunswick Green BS381C 226	Maker Coating Systems Ltd	17g/l	8010-99-269-1301	
SIGMA AQUACOVER 45 7250 Wedgwood Blue BS4800 18D43	Maker Coating Systems Ltd	17g/l	8010-99-471-2071	
SIGMA AQUACOVER 45 7250 Azure Blue BS381C 104	Maker Coating Systems Ltd	17g/l	8010-99-863-5457	
SIGMA AQUACOVER 45 7250 Canary BS381C 309	Maker Coating Systems Ltd	17g/l	8010-99-182-2670	
SIGMA AQUACOVER 45 7250 Dark Blue BS4800 18C39	Maker Coating Systems Ltd	17g/l	8010-99-957-7697	
SIGMA AQUACOVER 25 7150 Buff	Maker Coating Systems Ltd	37g/l	8010-99-321-6318	
SIGMA AQUACOVER 45 7250 Lt Brunswick Green BS381C 225	Maker Coating Systems Ltd	17g/l	8010-99-338-4734	
SIGMA AQUACOVER 45 7250 Signal Red BS381C 537	Maker Coating Systems Ltd	17g/l	8010-99-880-0100	
SIGMA AQUACOVER 45 7250 White	Maker Coating Systems Ltd	17g/l	8010-99-225-7360	
SIGMAGLIDE 790	Maker Coating Systems Ltd	187 g/l	8010-99-406-0976	
SIGMAGLIDE 71290	Maker Coating Systems Ltd	118 g/l	8010-99-217-0543	
SIGMA PHENGUARD 930	Maker Coating Systems Ltd	300 g/l	8010-99-667-6118	
SIGMA PHENGUARD 935	Maker Coating Systems Ltd	300 g/l	8010-99-925-0882	
SIGMA PHENGUARD 940	Maker Coating Systems Ltd	300 g/l	8010-99-976-1657	
AQUACOVER 500 (same products as AMERCOAT 300A)	Maker Coating Systems Ltd	0 g/l	8010-17-108-8249	BLI (A0801)
AMERLOCK 138G	Maker Coating Systems Ltd	168 g/l	8010-01-397-3806	
AMERLOCK 400C Grey	Maker Coating Systems Ltd	106 g/l	8010-99-974-7400	BLI (A0827)
AMERLOCK 400C Black	Maker Coating Systems Ltd	106 g/l	8010-17-106-6001	BLI (A0827)
AMERLOCK 400C White	Maker Coating Systems Ltd	106 g/l	8010-17-108-8248	BLI (A0827)
AMERLOCK 400C RAL 6018 Yellow-Green	Maker Coating Systems Ltd	106 g/l	8010-99-383-2335	BLI (A0827)
AMERLOCK 400 C Green RAL 6011	Maker Coating Systems Ltd	106 g/l	8010-17-120-4829	BLI (A0827)
AMERLOCK 400C Non-Skid Type 1 Black	Maker Coating Systems Ltd	106 g/l	8010-99-184-8542	BLI (A0827)
CORROLESS EPF Buff	Maker Coating Systems Ltd	80 g/l	8010-25-150-0972	BLI (A1773)
CORROLESS EPF Black	Maker Coating Systems Ltd	80 g/l	8010-99-212-7555	BLI (A1773)
CORROLESS RF 35 Off White	Maker Coating Systems Ltd	93 g/l	8010-25-150-0973	BLI (A1772)
CORROLESS RF 35	Maker Coating Systems Ltd	93 g/l	8010-99-337-0778	BLI (A1772)
Sher-Cryl™ M770 White	Sherwin-Williams Protective & Marine Coatings	128 g/l	8010-99-231-3852	CI (A3274)
Sher-Cryl™ M770 Black	Sherwin-Williams Protective & Marine Coatings	128 g/l	8010-99-768-1426	CI (A3274)
Sher-Cryl™ M770 Signal Red BS381C 537	Sherwin-Williams Protective & Marine Coatings	128 g/l	8010-99-225-7155	CI (A3274)
Sher-Cryl™ M770 Canary BS381C 309	Sherwin-Williams Protective & Marine Coatings	128 g/l	8010-99-726-4136	CI (A3274)
Sher-Cryl™ M770 Dark Blue BS4800 18C39	Sherwin-Williams Protective & Marine Coatings	128 g/l	8010-99-723-3650	CI (A3274)



**ANNEX L**  
**SUBMARINE STOCK NUMBERS (NSNs)**

<b>Material</b>	<b>Supplier</b>	<b>VOC Compliant</b>	<b>NSN</b>	<b>BR1326</b>
Sher-Cryl™ M770 Azure Blue BS381C 104	Sherwin-Williams Protective & Marine Coatings	128 g/l	8010-99-878-8150	CI (A3274)
Sher-Cryl™ M770 Ash Grey BS4800 00A01	Sherwin-Williams Protective & Marine Coatings	128 g/l	8010-99-517-5228	CI (A3274)
Sher-Cryl™ M770 Lt Brunswick Green BS381C 225	Sherwin-Williams Protective & Marine Coatings	128 g/l	8010-99-313-9445	CI (A3274)
Sher-Cryl™ M770 Mid Brunswick Green BS381C 226	Sherwin-Williams Protective & Marine Coatings	128 g/l	8010-99-862-5170	CI (A3274)
Sher-Cryl™ M770 Grey BS381C 676	Sherwin-Williams Protective & Marine Coatings	128 g/l	8010-99-833-4765	CI (A3274)
Sher-Cryl™ M770 Wedgewood Blue BS4800 18D43	Sherwin-Williams Protective & Marine Coatings	128 g/l	8010-99-723-3651	CI (A3274)
EPIDEK L716 Black	Sherwin-Williams Protective & Marine Coatings	420 g/l	8010-99-225-0689	BLI (1010)
EPIDEK M377 Non-Skid Type 1 Black	Sherwin-Williams Protective & Marine Coatings	330 g/l	8010-99-777-8692	
Macropoxy® C251	Sherwin-Williams Protective & Marine Coatings	235 g/l	8010-99-284-3464	BLI (A5025)
Macropoxy® C425V2	Sherwin-Williams Protective & Marine Coatings	186 g/l	8010-99-786-7949	BLI (A3736)
Macropoxy® C425V2 Off White	Sherwin-Williams Protective & Marine Coatings	186 g/l	8010-99-133-8714	BLI (A3736)
Macropoxy® M111	Sherwin-Williams Protective & Marine Coatings	383 g/l	8010-99-884-5957	W (A0662)
Macropoxy® M902 Aluminium	Sherwin-Williams Protective & Marine Coatings	219 g/l	8010-99-421-0972	BLI (A1084)
Macropoxy® L425	Sherwin-Williams Protective & Marine Coatings	346 g/l	8010-99-777-8688	W (A0565g)
Macropoxy® L524 Aluminium	Sherwin-Williams Protective & Marine Coatings	296 g/l	8010-99-216-0021	BLI (A0661)
Macropoxy® L524 White	Sherwin-Williams Protective & Marine Coatings	296 g/l	8010-99-564-2934	BLI (A0661)
Macropoxy® L574	Sherwin-Williams Protective & Marine Coatings	594 g/l	8010-99-895-9894	BLI (A0565f)
Macropoxy® H766	Sherwin-Williams Protective & Marine Coatings	395 g/l	8010-99-623-9946	BLI (A0565j)
Macropoxy® M922	Sherwin-Williams Protective & Marine Coatings	143	8010-99-834-8384	BLI (A1471)
Macropoxy® M922M Mastic Aluminium	Sherwin-Williams Protective & Marine Coatings	146 g/l	8010-99-495-3873	
Macropoxy® M630V2	Sherwin-Williams Protective & Marine Coatings	0 g/l	8010-99-535-5105	BLI (A2973)
Macropoxy® M630V2 Black	Sherwin-Williams Protective & Marine Coatings	0 g/l	8010-99-739-8402	BLI (A2973)
Macropoxy® M630V2 White	Sherwin-Williams Protective & Marine Coatings	0 g/l	8010-99-313-4440	BLI (A2973)
Macropoxy® M630V2 Green BS4800 14C39	Sherwin-Williams Protective & Marine Coatings	0 g/l	8010-99-255-5237	BLI (A2973)
Macropoxy® M630V2 Grey BS381C 676	Sherwin-Williams Protective & Marine Coatings	0 g/l	8010-99-131-6908	BLI (A2973)
SHERWIN M535 Black	Sherwin-Williams Protective & Marine Coatings	502 g/l	8010-99-453-1479	

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