



Ministry
of Defence



Defence Equipment & Support

WARPAINT

Issue 45
OCTOBER 2019



Equipping and Supporting our Armed Forces

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**The information on acceptable paint systems / coatings, given in this publication, updates
WARPAINT Issue 44 - March 2019.**

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 Issue 5 of BR 3939 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 in accordance with BR 3939 Issue 5.
3. WARPAINT is currently 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-SET-HPC1.
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. PDS's define a process that must be followed in conjunction with the TDS and MSDS. Full Quality Control (QC) data must be recorded to provide assurance and evidence that the specification has been satisfactorily achieved in accordance with 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 – [MoD Sharepoint](#)
 - b. Internet at: <https://www.gov.uk/government/publications/warpaint>

AMENDMENTS TO ISSUE 45

7. Front Cover: Royal Navy submarine HMS Victorious departs HMNB Clyde under the Scottish summer sunshine to conduct continuation training. The Royal Navy has operated the UK's Continuous at Sea Deterrent since 1967 when the first SSBN – or Ship Submersible Ballistic Nuclear – HMS Resolution began patrolling armed with the Polaris missile system.
8. Annexes B, C, D, E, F, G and H of previous issue of Warpaint have been reformatted to specify paint by ship area. NSN listings are now in Annex D and E. In addition Detergents and Mordant Wash products have been included and specified in Annex A. The products in WARPAINT are currently being reviewed by DES Ships WSpt-CET-SET-HPC1. Post review, a WARPAINT

Approval Reference (WAR) Number will be allocated to each product and will be included in future updates of WARPAINT within Annexes B and C.

9. Annex F has been added to the document so that ships staff can order the correct manufacturers paint for their platform. Currently it does not capture every platform. This annex will be added to in issue 46 due in March 2020.
10. RNHHD, Design target life, Design & VOC Compliant Coating Systems sections updated including a method of VOC determination and pictorial update of Stage 4 corrosion.
11. Paint and preservation hot topics section updated to detail ongoing work in the area.

DES Ships WSpt-CET-SET-HPC1 WARPAINT APPROVAL PROCESS

12. Paint coatings on all RN surface ships and submarines are to be WARPAINT compliant. Figure 1 details the process for product inclusion in WARPAINT.
13. All requests for approval are to be sent to DES Ships WSpt-CET-SET-HPC1. 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.

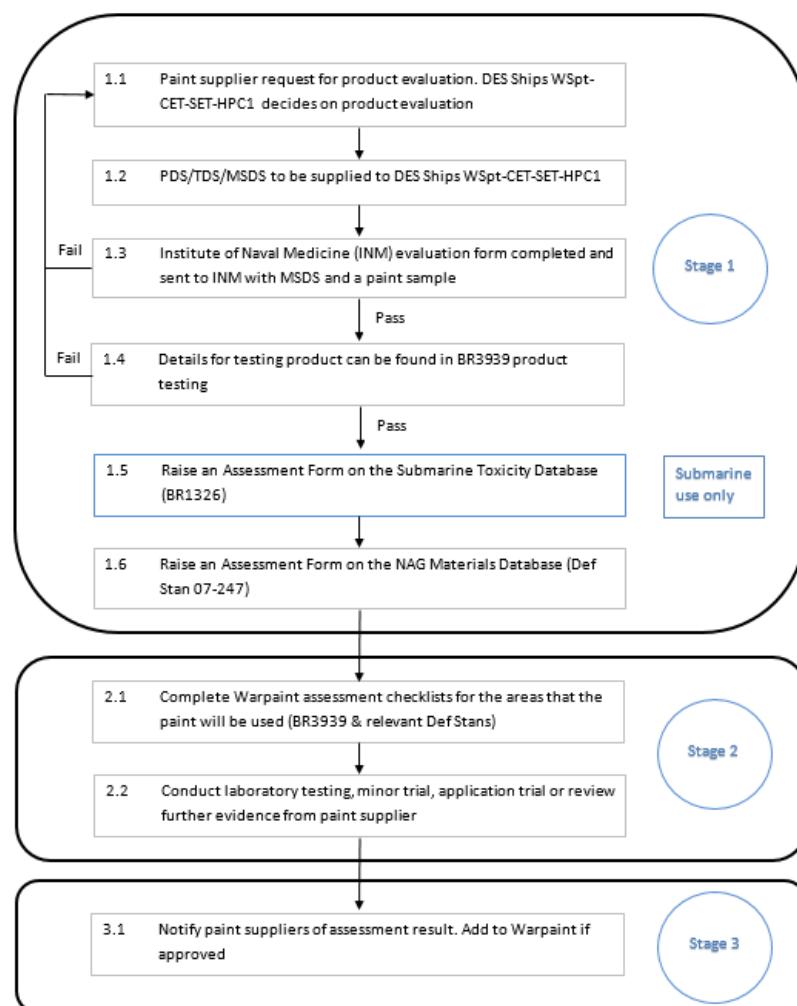


Figure 1-1 WARPAINT Approval Process

14. Requests are not to be sent directly to Institute of Naval Medicine (INM). Requests sent directly to INM will not be actioned.
15. All paints shall be reassessed every 5 years to ensure they still meet Warpaint requirements. This may be carried out sooner if there has been a change in legislation or the manufacturer notifies DES Ships WSPT-CET-SET-HPC1 of a change to the formulation.
16. As part of the approval process the manufacturer shall be required to submit in confidence Identification Characteristics (IC) In Accordance With (IAW) BR3939 Issue 5.

RN HUSBANDRY HABITABILITY DATABASE (RNHHD)

17. Access to Ship Shape RN has now been removed. A message is currently displayed until the end of the year.
18. The new database is located on the RLI network and can be found at <http://www.rnhhdb.r.mil.uk> log ins are not required. The toolset is General Data Protection Records (GDPR) compliant and is undergoing MOD accreditation.
19. RNHHD has been updated to include product data sheets and safety data sheets for all warpaint coatings. Links have been created between the Naval Authority Group (NAG) Non-Metallic Materials Database where possible. This will continue to be updated as the two databases are aligned.
20. 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.
21. 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

22. 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 and UK Shipyards.
23. 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

24. The expected design target life of coatings applied to Royal Naval Vessels, in accordance with the performance requirements of BR 3939 and the paint manufacturer's declaration, are as follows:

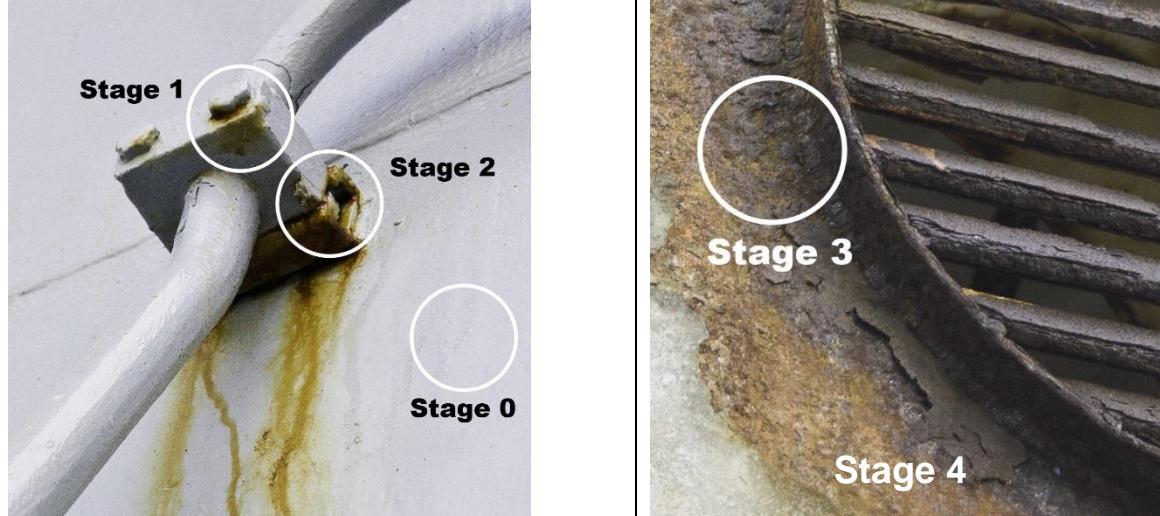
Description	Design Life
Holding Primer	6 Months
Hull Primer	20 Years
Anti-Fouling	5 Years
Anti-Fouling Foul Release	6 Years
Internal Primer	25 Years
Internal Finish	15 Years
External Finish	5 Years
Tank Coatings	15 Years
Bilges (Zinc metal sprayed)	25 Years

Table 1-1 Design Target Life of Coatings

25. Where Bilges are not zinc metal sprayed, they shall meet the 25-year design life using alternative approved coatings IAW BR3939 Issue 5.

THE 4 STAGES OF CORROSION

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



Stage 0	No visible signs of corrosion. No indications of paint system defects. No visible sign of oxidation products.
Stage 1	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.
Stage 2	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.
Stage 3	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.
Stage 4	Complete perforation of the base metal has occurred, and structural integrity has been lost.

Table 1-2 Stages of Corrosion

QUALITY

27. Quality is an important aspect to painting and cannot be underestimated. It is paramount that robust processes are in place and adhered to. BR 3939 Issue 5 Section 14 Quality Assurance & Quality Control outlines the requirement for a Inspection Test Plan (ITP) and variable check points in the process as well as the qualification level of the paint inspectors. In addition the requirements of Annex C of BR 3939 must also be noted.
28. 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-SET-HPC1 for information.

PAINTING AND PRESERVATION HOT TOPICS

29. 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-SET-HPC1 alternatively telephone 030 679 35047.

MILL SCALE

30. 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 due course.
31. Mill scale is an iron oxide layer that forms when steel is manufactured, during hot rolling. It is generally between 25-100 µm 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 loose 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

SAFETY TOPICS (TO BE READ IN CONJUNCTION WITH BR 3939)**NEEDLE GUNS**

32. 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

33. 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 1st 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.
34. 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.
35. 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.
36. 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.
37. For guidance see HSE Information Sheet on Chromate Primers Engineering Sheet No 32.

PROHIBITED COATINGS

38. 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, brominated and fluorinated Rubbers
 - Isocyanates

Therefore, IAW BR 3939 Section 3 material requirements coatings containing these substances are prohibited for use on UK Warships or Submarines.

RUST/STAIN REMOVERS

39. 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 of coatings and therefore is to be used sparingly and only once the initial corrosion issue has been rectified.

SHIPS RESPONSIBILITY FOR PAINT REPAIRS

40. Ships Company are responsible for paint repairs of up to 1m², referring to BR 3939 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.

41. 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.
42. Annex F 'WSpt Ships Paint Table' details the manufacturers whose products are used on each platform. Currently It does not include all surface ships. The table will be updated in the next edition of WARPAINT to reflect all surface ships.

HUSBANDRY - CURRENT WORK

43. 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. This has been delayed due to resource pressures within INM & DE&S.
44. Minor trial for temporary holding paints will commence in January 2020 and will run for a period of 12 months. 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.
45. Supporting Navy Command in providing a new maritime anti-corrosion kit that can be deployed to each platform.
46. Configuration control of paint material state on all surface ship vessels. Work has started on an online central database that will be called Paint Material State Database (PMSD). Phase 16 will be delivered in March 2020.
47. Raise requests for NSN Codification of paints that are approved but have not been codified.
48. Populate RN Husbandry & Habitability Database (RNHHD) with the correct information and documents for habitability products.
49. New build vessels, higher performance wet compartment coatings to be specified for dry compartments.
50. Update of WARPAINT Annex A to include performance requirements for specialised coatings.

- 51 References to proprietary colours are being evaluated for cross-reference to standardised colours. These colours are identified in red.
52. Review antifouling policy for RN ships and to write a Hull management plan for RN Ships.
53. Investigate Biofouling Ultrasonic technology for ships systems. This will include a minor trial on a number of platforms.

VOC COMPLIANT COATING SYSTEMS

54. 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 and reported to DES Ships WSpt-CET-SET-HPC1. They will then be required to provide the Institute of Naval Medicine (INM) with full details of formulation changes, along with revised MSDS 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-SET-HPC1.
55. MOD(N) requires that paint manufacturers and suppliers quote VOC levels in accordance with local environmental regulations.
56. 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. These target levels are also specified in BR 3939.

Category No.	Category	VOC limit – gms/litre, Paint less Water (See Note 1)
(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#	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

Note 1. VOC calculations carried out in accordance with Def Stan 05-133 Part 1, Test 6.13.

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.

57. 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

58. Acceptable paint specifications are outlined in Annex C, together with a list of other acceptable materials.
59. SDA-IS-NavArch3b Tel. No. 030 679 33221, is the Structures & Coatings POC for In-Service Submarines.
60. SDA-F-HullOutf1b Tel. No. 030 679 85569, is the Structures & Coatings POC for Future Submarines.
61. SDA-P-ENG-NA-Con3 Tel. No. 030 679 36626, is the Structures & Coatings POC for Astute Class.
62. SDA-P-ENG-SP1, Tel. No. 030 679 30168, is the POC for Annex C area S28 Lilo/Payload Bay Chamber.
63. BR 1326 Classification can be found in the 'Submarine Material Toxicity Database' located here - <http://www.tes-ssq-smtd.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 BR 1326 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.
64. 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.
65. 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

WHOLE SHIP SPECIFICATIONS

66. The Whole Ship Specifications were submitted by seven major marine paint manufacturers / suppliers. 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 upkeep, maintenance and repair.
 - a. Submarine Systems Annex C 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' 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 Annex B and Annex C 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.
67. 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.
68. 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.
69. Tables
 - a. These include Nominal Dry Film Thickness (NDFT) per coat in micrometres (μm), 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. The Wet Film Thickness (WFT) has been added alongside the Dry Film Thickness (DFT) for both Annex B and C. The WFT is calculated with the following equation: $\text{WFT} = [(\text{DFT}) / (\text{Volume Solid \%})] \times 100$. The Volume Solid percentage can be found in the TDS/PDS for that paint. In the same column there is both the NDFT and NWFT, the first value being the NDFT and the second value being the NWFT.

c. **VOC grams per litre in the table highlighted thus** in a box; do not comply with MOD VOC emission target levels.

d. Items with a '?' appearing in the boxes, indicate that manufacturer/supplier information is awaited.

e. The paint manufacturers are listed in alphabetical order under each Ship and Submarine Area in Annex B and C as follows: -

Chugoku Paints (UK) Ltd

Hempel Paints Ltd

International Paint Ltd

Jotun Paints (Europe) Ltd

Maker Coating Systems Ltd

PPG Protective & Marine Coatings (Sigma)

Sherwin Williams Protective & Marine Coatings

NATO Stock Numbers (NSN's) for each manufacturer's products, where available, are listed in Annex D and E.

f. BR 1326 – 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.

g. In Annex C where a coating has the designation EXT in the BR 1326 column it means that the coating has not been assessed and can only be used externally to the pressure hull.

h. Breathable atmosphere (Axxxx) reference numbers are taken from the Submarine Material Toxicity Database discussed in paragraph 63.

70. 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-SET-HPC1 or DESShipsWSpt-Amph-LC-TLM.

SPECIALIST COATINGS & PAINT REMOVERS

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

72. Cleaning Materials and Rust Removers

a. DES Ships WSpt-CET-SET-HPC1 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-SET-HPC1 alternatively telephone 030 679 35047.

- b. BR2203 Ship Husbandry Manual dated Feb 2015 is now available on DII -
http://web.apps.royalnavy.r.mil.uk/fpgo/BRd_0001_4999/BRd_2203/BRd_2203/01_Homepage.html

73. Specialist Coatings Suppliers Contact Details:

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

REFERENCES

BR1326 Air Purification in Submarines

BR2203 Ship Husbandry Manual

BR3939 Hull Preservation Processes

Def Stan 05-133 Methods for Testing Paints, Chemicals and Associated Products Part 1 Paints

Def Stan 07-247 Selection of materials on the basis of their fire characteristics

Def Stan 80-208 Paint, finishing, polyurethane, multi-pack, IRR, chemical agent resistant, non-aircraft use, low VOC. Withdrawn December 2018

Def Stan 80-225 Paint system, low VOC, single or multi-pack.

ANNEX A

ANNEX A: SPECIALIST COATINGS AND PAINT REMOVERS

Specialist Systems/Materials	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
<u>ANTIFOULING FOR "ARCHER" CLASS & YACHTS</u>				
SUPERSPEED 52	Anti-Fouling	411		N/A
COPPER COAT	Anti-Fouling	0		N/A
<u>RUDDER, STABILISERS & "A" FRAMES</u>				
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 Supermetalglide (Cavitation protection) (2 coats. 3 coats if blasting prior to application of anti-foul)	Epoxy	5	99-322-3979	N/A
<u>HULL (Underwater-Applied Coatings) GENERAL REPAIR</u>				
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
<u>HULL – LINK COATS FOR FOUL RELEASE PAINT</u>				
<u>Hempel Paints Ltd</u>				
HEMPASIL NEXUS X-Seal 27600	Silicone	400		N/A
<u>International Paints Ltd</u>				

ANNEX A

Specialist Systems/Materials	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
Link Coat for INTERSLEEK 737: INTERSLEEK 7180	Silicone	376	99-593-3810	N/A
<u>HPSW INTERNAL COATING FOR INTAKE PIPEWORK</u>				
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
<u>PEELABLE CORROSION-INHIBITING ENCAPSULATING MEMBRANE</u>				
<u>A&E Group</u>				
Enviropeel (External/Weather deck applications only. Not for internal use.)	Thermoplastic	0		N/A
<u>Belzona</u>				
Belzona 8411 / 3411 (includes approval for limited internal use)	Hybrid Polymer	0		8411 BLI (A6633) 3411 BLI (A6634 & A6635)
<u>SEAWATER BALLAST TANK SPOT REPAIR</u>				
<u>Chugoku</u>				
NOVA Barrier 5000 (Surface tolerant – High build – Fast cure)	MIO Epoxy	0	TBC	TBC
<u>FLIGHT DECK / DECK MARKINGS</u>				
<u>Chugoku Paints (UK) Ltd</u>				
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

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Specialist Systems/Materials	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
521E0013 Type 1 Green	Epoxy	374	99-543-0791	N/A
<u>Hempel Paints Ltd</u>				
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
<u>International Paints Ltd</u> 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
<u>Sherwin-Williams Protective & Marine Coatings</u>				
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
<u>LCU & LVCP – CARC &IRR A/W HULL FINISH</u>				
Def Stan 80-208 has been replaced by Def Stan 80-225. Coatings to Def Stan 80-225 to be identified				
TBA				

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Specialist Systems/Materials	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
TBA				
NAVIGATION LIGHT ENCLOSURES Matte Black Finish Sherwin-Williams Protective & Marine Coatings Steel Spec™ M155	Alkyd Anti-Corrosive	410	TBC	N/A
International Paint Ltd INTERLAC 497 [Primer – Intergard 5000 (150 DFT) & Tie-Coat – Intergard 263 (75DFT)]	Alkyd Anti-Corrosive	391	TBC	N/A
INSTRUMENTS & ELECTRONIC EQUIPMENT PANELS Light Admiralty Grey BS381C 697	<u>Manufacturer</u> <u>Applied Coatings</u>			
Trimite SF59 Filler / Sp59 Primer/ S59 Top Coat Onboard Repairs: Q55 (X has been dropped now all products are lead free)	Stoved Epoxy	-	-	N/A
	Synthetic	491	99-224-9624	BLI (A2811)
Indestructible Paints IP3-6700 epoxy primer IP3-6971 epoxy finish	Epoxy	350	-	N/A
	Epoxy	420	-	N/A
GALVANISED STEEL & ZINC METAL SPRAYER (REPAIR)				
Maker Coatings ZINGA	Polystyrene	539	99-884-0220	BLI (A2277)
Hempel Paints Ltd HEMPADUR ZINC 18560 HEMPEL'S ZINC PRIMER 16490	Water-Based Epoxy	60		N/A
	Zinc Phenoxyl	590		BLI (A3328)
International Paints Ltd INTERZINC 22	Zinc Silicate	470	99-927-5431	N/A

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Specialist Systems/Materials	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
INTERZINC 72	Zinc Epoxy	410		B (Cl, A1593)
<u>PPG Protective & Marine Coatings</u>				
SIGMAZINC 19	Zinc Epoxy	584	99-152-6131	BLI (A4968)
<u>Sherwin-Williams Protective & Marine Coatings</u>				
Zinc Clad® J984BS	Zinc Epoxy	331		N/A
<u>WOODWORK</u> (High gloss, Clear, Protective finish)				
<u>Chugoku Paints Ltd</u>				
SPAR VARNISH	Varnish	433		N/A
<u>Hempel Paints Ltd</u>				
HEMPEL'S MARINE VARNISH 022220 (prev. 022GB)	Alkyd	430	99-224-5783	N/A
<u>International Paint Ltd</u>				
INTERLAC 678	Alkyd	373	99-328-9646	BLI (A2107)
<u>Jotun Paints (Europe) Limited</u>				
SPONTAN VARNISH	Urethane Alkyd	470	99-161-6220	N/A
<u>PPG Protective & Marine Coatings</u>				
SIGMAVAR GLOSS 8103	Phenolic	393		N/A
<u>Quaker Chemical Ltd</u>				
Topcoat TBA				
<u>CORROSION INHIBITOR GREASE</u>				
CORROLESS CCI 355	HD Grease	N/A	99-676-5736	G (A2738)
<u>CONDUCTIVE GLANDS</u> (QEC requirement)				
<u>Parker Chomerics</u>				
Cho-shield 610	Copper Epoxy EMI	591	N/A	N/A

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Specialist Systems/Materials	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
<u>HEAT RESISTANT COATINGS (Below 175°C)</u>				
SIGMATHERM 175	Modified Alkyd	561	-	BLI (A4080)
<u>International Paint Ltd (up to 250 °C)</u>				
INTERTHERM 891	Oleoresinous Aluminium	425	-	BLI (A2104)
<u>HEAT RESISTANT COATINGS (Above 250°C)</u>				
<u>Hempel Paints Ltd</u>				
HEMPEL'S GALVOSIL 15700	Zinc Silicate	435	99-593-8923	BLI (A1982)
<u>International Paint Ltd</u>				
INTERTHERM 50	Aluminium Pigmented Silicone Resin	495		BLI (A3498)
<u>PPG Protective & Marine Coatings</u>				
SIGMATHERM 500	Modified Alkyd	600		BLI (A4072)
<u>Sherwin-Williams Protective & Marine Coatings</u>				
Zinc-Clad II EU (Previously Dox Anode D5V2)	Zinc Silicate	470		N/A
<u>HEAT RESISTANT COATINGS (Above 400°C)</u>				
<u>Hempel Paints Ltd</u>				
HEMPEL'S SILICONE ALUMINIUM 56910	Polysiloxane	585		W (A1916)
<u>International Paint Ltd</u>				
INTERTHERM 50	Silicone Aluminium	495	99-969-0549	BLI (A3501)
<u>PPG Protective & Marine Coatings</u>				
SIGMATHERM 500	Modified Alkyd	600		BLI (A4072)
<u>SYSTEM FOR COATING NATURAL RUBBER MOUNTS</u> Applied by Mount OEM. Not to be touched up once fitted.				
<u>Maker Coating Systems Ltd</u>				

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Specialist Systems/Materials	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
GUMMIPAIN – Orange & Black	Single Pack		TBC	BLI (A3672)
<u>PAINT REMOVER</u>				
<u>N A Robson Ltd</u>				
BACK TO NATURE VIII	Biodegradable	N/A	99-361-6273	BLI (A1608)
<u>International Paints Ltd</u>				
INTERPLUS 634	Biodegradable	N/A	99-551-8994	CI (A3499)
<u>Maker Coating Systems Ltd</u>				
SEA TO SKY SPC-203	Biodegradable	N/A	20-003-3432	CI (A3679)
<u>RUST STAIN REMOVER</u>				
<u>International Paint Ltd</u>				
INTERPLUS 614 (20L – Shelf Life 18 months max) Corrosion source / issue must be rectified before use. 6 - 16hrs dwell time. Cover with Polythene to keep wet. Excessive orders require suitable justification.	Biodegradable	N/A	99-870-1799	N/A
<u>UNIQUE IMMERSED AREAS – PUMPS ETC</u>				
<u>Corrocoat Limited</u>				
CORROGLASS 202	Polyester Glass Flake			N/A
CORROGLASS 232	Polyester Glass Flake			N/A
CORROGLASS 602	Vinyl Ester Glass Flake			BLI (A1818)
CORROGLASS 632	Vinyl Ester Glass Flake			BLI (A1819)
POLYGLASS VE	Vinyl Ester Glass Flake			N/A
POLYGLASS VE HAND APPLIED	Vinyl Ester Glass Flake			N/A

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Specialist Systems/Materials	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
POLYGLASS VEF	Vinyl Ester Glass Flake			N/A
POLYGLASS ZIPCOAT	Polyester Glass Flake			N/A
CORROCOAT ZIP E	Glass Flake Epoxy			N/A
<u>MORDANT REAGENT</u> <u>Sherwin-Williams Protective & Marine Coatings</u> MORDANT WASH L703	Blue Mordant Solution	307		N/A
<u>CLEANING DETERGENT</u> <u>Ensign Chemicals</u> ENSIGN <u>Greyland Ltd</u> Cleaner RN 190907 <u>Forward Chemicals Ltd</u> Cleaner RN 184	Detergent Concentrate	0		
<u>DAMP SURFACE PRIMER</u> <u>Sherwin-Williams Protective & Marine Coatings</u> <u>Macropoxy® M111</u>	Epoxy	383	8010-99-884-5957	W(A0662)

*Advance BR 1326 assessment from INM. Full request via SMTD required.

Colours in red – colour code to be identified

TBA – To Be Advised

ANNEX B

ANNEX B: WHOLE SHIP SPECIFICATION

Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
A & B. BELOW WATER HULL PRIMER							
<u>Chugoku Paints (UK) Ltd.</u>							
Standard: BANNOH 1500		1	150/208	4.87	9 hrs	120 days	286
Alternative: UMEGUARD HS SILVER		1	150/194	5.93	20 hrs	7 days	158
Tie-coat (for C & F): BANNOH 1500 SZ		1	100/156	6.4	10 hrs	5 days	333
<u>Hempel Paints Ltd</u>							
Standard: Hempadur Quattro 17634		1	125/173	5.8	6 hrs	90 days	276
Tie-Coat for C & F: Hempadur 47182		1	125/201	5	7 hrs	3 1/2 days	364
Tie-Coat for D: Hempel Nexus 27310		1	100/223	5.6	6 hrs	20 hrs	388
Tie-Coat for D: Hempasil Nexus X-Tend 27500 (repair only)		1	120/185	5.4	8 hrs	48 hrs	259
<u>International Paint Ltd.</u>							
Standard: INTERGARD 5000		1	175/213	4.68	12 hrs	2 months	155
Alternative: INTERSHIELD 300 Foul Release only (Area D)		2	125/208	4.8	7 hrs	14 months	313
Tie-Coat for C: INTERGARD 263		1	75/131	7.6	8 hrs	5 days	379
Tie-Coat for D (if req'd): INTERSLEEK 737		1	100/175	6.5	4 hrs	7 days	325
<u>Jotun Paints (Europe) Ltd.</u>							
Standard: JOTACOTE UNIVERSAL (Alu. Red toned)		1	200/278	3.6	4 hrs	#	240
Alternative: JOTAMASTIC 87 ALUMINIUM (Red toned)		1	200/230	4.4	10 hrs	#	110
Alternative: MARATHON IQ (Impact resistant – Red)		1	500/510	2	10 hrs	3 days	30
Tie-Coat: SAFEGUARD UNIVERSAL ES (Grey)		1	100/161	6.2	10 hrs	3 days	330
<u>Maker Coating Systems Ltd.</u>							
Standard: CORROLESS EPF (Tie-Coat not req'd where over coated in <3 days)		1	200	4.8	16 hrs	3 days	80
Alternative: SIGMA SHIELD 220 (7951)		1	125	6.4	3.5 hrs	14 days	262
Tie-Coat (if req'd): SIGMACOVER 525 (7902)		1	100	6.1	12 hrs	14 days	365

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
A & B. BELOW WATER HULL PRIMER (2) PPG Protective & Marine Coatings Standard: SIGMACOVER 240 (7991) Tie-Coat (For C & F if req'd): SIGMACOVER 525 (7902) Sherwin-Williams Protective & Marine Coatings Macropoxy® C425V2 Tie-Coat (If req'd): SHERWIN M535		1 1 1 1	175/201 75 175 50	5 8.2 7.5 8	5 hrs 12 hrs 4 hrs 2 hrs	30 days 14 days # #	153 365 186 502
C. ANTIFOULING FINISH (Self Polishing – SPC) Chugoku Paints (UK) Ltd. SEA GRANDPRIX 1000L silyl hydrolysis Hempel Paints Ltd 5-year life: Hempel Globic 6000 (75950) 7-year life: Hempel Globic 9000 (78950) International Paint Ltd. 5-year life: INTERSMOOTH 7460 Jotun Paints (Europe) Ltd. Standard: SEAQUANTUM PLUS (Light red*) Alternative: SEAQUANTUM ULTRA (Dark Red*) Marker Coating Systems Ltd. SIGMA ECOFLEET 530 (Red brown) (7385) SIGMA ECOFLEET 530 (Brown) (7385) PPG Protective & Marine Coatings SIGMA ECOFLEET 530 (Red brown) SIGMA ECOFLEET 530 (Brown) Sherwin-Williams Protective & Marine Coatings SEA GRANDPRIX 1000L silyl hydrolysis		2 2 2 2 2 1 2 1 1 1 1 1 2	150/268 100/172 100/172 125/231 125/250 125/250 110/183 110/183 175/292 175/292 150/268	3.4 5.8 5.8 3.2 3.8 3.8 5.4 5.4 3.4 3.4 3.4 3.4	5 hrs 10 hrs 10 hrs 12 hrs 7 hrs 7 hrs 6 hrs 6 hrs 6 hrs 6 hrs 5 hrs	# # # 28 days # # # # # # #	408 383 370 425 460 460 339 339 339 339 408

*colours in red - colour code to be identified

ANNEX B

Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
D. ANTIFOULING SYSTEM (Foul Release – FRC 5+ yr life)							
<u>Chugoku Paints (UK) Ltd.</u>							
CMP BIOCLEAN SG R		1	125/208	4.86	20 hrs	#	406
CMP BIOCLEAN R		1	100/154	6.5	4 hrs	24 hrs	325
CMP BIOCLEAN HB pure silicon finish		1	150/211	4.73	#	#	261
<u>Propeller & Rudder:</u>							
Etching Primer							
<i>Primer TBA</i>							
CMP BIOCLEAN SG R		1	100/167	6	4 hrs	#	406
CMP BIOCLEAN R single pack silicone finish		1	200/308	3.3	4 hrs	24 hrs	325
<u>Hempel Paints Ltd</u>							
Hempasil X3+ 87500 Hydrogel Silicone		1	150/211	4.7	6 hrs	#	265
Hempaguard X7 89900 Hydrogel c/w Biocides Seek approval. Operational requirement required due to additional H&S risks.		1 *CW* 2 *WW*	150 100	4.7 7	6 hrs 6 hrs	48 hrs 48 hrs	262 262
Cold Water (CW) & Warm Water (WW) systems provided							
<u>International Paint Ltd.</u>							
INTERSLEEK 1100SR Slime Release Fluoropolymer		1	150/208	4.8	24 hrs	#	248
<u>Jotun Paints (Europe) Ltd.</u>							
SEALION TIECOAT Plus (If req'd – Light red)		1	90/164	6.1	16 hrs	4 days	359
SEAQUEST Red		1	170/225	4.4	#	#	247
<u>Maker Coating Systems Ltd.</u>							
SIGMACOVER 295 (7947)		1	100/182	5.5	16 hrs	10 days	436
SIGMASHIELD 610 (7978)		1	150/263	3.8	12 hrs	5 days	436
SIGMAGLIDE 790 (7386)		1	150/190	5.3	12 hrs	5 days	187
SIGMAGLIDE 890: Silicone FR Finish (7399)		1	150/195	3.4	20 mins	#	215
SIGMAGLIDE 990: High Efficiency FR Finish (7397)		1	180/225	4.4	2 hrs	#	248

ANNEX B

Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
D. ANTIFOULING SYSTEM (Foul Release – FRC 5+ yr life) (2) PPG Protective & Marine Coatings							
SIGMACOVER 240 (7991)		1	125/144	7	5 hrs	30 days	153
SIGMASHIELD 610 (7978)		1	150/263	3.8	12 hrs	5 days	437
SIGMAGLIDE 790 (7386)		1	150/190	5.3	12 hrs	5 days	187
SIGMAGLIDE 890: Silicone FR Finish (7399)		1	150/195	3.4	20 mins	#	215
SIGMAGLIDE 990: High Efficiency FR Finish (7397)		1	180/225	4.4	2 hrs	#	248
SIGMAGLIDE 1290: Low-speed Slime Release Finish Seek approval. Operational req'ment req'd due to additional H&S risks.		1	180	4.8	#	#	118
Sherwin-Williams Protective & Marine Coatings							
CMP BIOCLEAN SG R		1	125/208	4.86	20 hrs	#	406
CMP BIOCLEAN R		1	100/154	6.5	4 hrs	24 hrs	325
CMP BIOCLEAN HB pure silicon finish		1	150/211	4.73	#	#	261
Propeller & Rudder:							
Etching Primer							
<i>Primer TBC</i>							
CMP BIOCLEAN SG R		1	100/167	6	4 hrs	#	406
CMP BIOCLEAN R single pack silicone finish		1	200/308	3.3	4 hrs	24 hrs	325

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
F. BOOTTOP ANTIFOULING FINISH (SPC)							
Chugoku Paints (UK) Ltd.		1	150/231	4.5	5 hrs	#	324
Standard: SEA GRANDPRIX 660 HS (Fusion) Alternative: SEA GRANDPRIX 1000L silyl hydrolysis		1	150/268	3.4	5 hrs	#	408
Hempel Paints Ltd		2	100/172	5.8	10 hrs	#	370
Standard: GLOBIC 9000 (78950) Alternative: OLYMPIC + (72950)		2	100	5.0	8 hrs	#	365
International Paint Ltd.		2	60/100	10	6 hrs	3 months	358
INTERSPEED 6400 Black BOOTTOP ANTIFOULING FINISH (FR) Standard: INTERSLEEK 1100SR Black		1	150/208	4.5	24 hrs	#	248
Jotun Paints (Europe) Ltd.		1 or 2	150/300	3.1	7 hrs	#	460
Standard SPC: SEAQUANTUM CLASSIC Alternative FRC: SEALION TIECOAT (If req'd – Light red)		1	90/164	6.6	15 hrs	4 days	406
SEALION REPULSE		1	150/208	4.8	#	#	230
Marker Coating Systems Ltd.		1	110/183	5.4	6 hrs	#	339
SIGMA ECOFLEET 530 Black (7385)		1	110/183	5.4	6 hrs	#	339
PPG Protective & Marine Coatings		1	110/183	5.4	6 hrs	#	339
SIGMA ECOFLEET 530 (Black) 7385		1	150/231	4.5	5 hrs	#	324
Sherwin-Williams Protective & Marine Coatings		1	150/268	3.4	5 hrs	#	408
Standard: SEA GRANDPRIX 660 HS (Fusion) Alternative: SEA GRANDPRIX 1000L silyl hydrolysis							

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
G & H. ABOVE WATER HULL & SUPERSTRUCTURE & PRIMER							
<u>Chugoku Paints (UK) Ltd.</u>							
Standard: BANNOH 1500		1	150/208	4.87	9 hrs	120 days	286
Alternative: UMEGUARD SX HS GREY Surface Tolerant		1	125/162	6.16	12 hrs	7 days	232
<i>Primer TBC</i>							
<u>Hempel Paints Ltd</u>							
Standard: QUATTRO 17634		1	125/174	5.8	6 hrs	90 days	276
Touch-up: HEMUCRYL PRIMER 18100		2	30	15.7	4 hrs	#	61
<u>International Paint Ltd.</u>							
INTERGARD 5000 Dawn Grey BS4800 00A01		1	150/183	5.47	12 hrs	14 days	155
<u>Jotun Paints (Europe) Ltd.</u>							
Standard: JOTACOTE UNIVERSAL (Alu. red toned)		1	200/278	3.6	4 hrs	#	240
Alternative: JOTAMASTIC 80 (Alu. red toned)		1	200/250	4.0	10 hrs	#	145
<u>Repair Kit (1:1 mix):</u> JOTAMASTIC SMART PACK (Red)		2	70/93	10.7	7 hrs	#	230
<u>Maker Coating Systems Ltd.</u>							
Standard: AMERLOCK 400C		1	125/147	7	16 hrs	#	106
Alternative: SIGMASHIELD 220 (7922)		1	125	6.4	3.5 hrs	14 days	262
<u>PPG Protective & Marine Coatings</u>							
Standard: SIGMACOVER 240 (7991)		1	150/172	5.8	5 hrs	30 days	153
Alternative: SIGMASHIELD 220 (7922)		1	150	5.3	3.5 hrs	14 days	262
<u>Sherwin-Williams Protective & Marine Coatings</u>							
Macropoxy® C425V2		1	100/133	7.5	4 hrs	#	186

ANNEX B

Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
J. ABOVE WATER HULL & SUPERSTRUCTURE FINISH Light Weatherwork Grey BS381C 676							
Chugoku Paints (UK) Ltd.							
<i>Finish TBA</i>							
<i>Finish TBA</i>							
Hempel Paints Ltd							
Acrylic: HEMPEL'S PRO ACRYLIC 55880		1	50/89	11.0	12 hrs	#	380
Silicone Alkyd: HEMPEL'S SILICONE ALKYD FINISH 53230		1	35/64	15.4	8 hrs	1-2 days	410
Tie-Coat – (if req'd): HEMPALIN UNDERCOAT 42460		1	40/75	12.5	8 hrs	7 days	385
Sealer for RASH: HEMUCRYL 18100		1	30/	15.7	4 hrs	#	61
International Paint Ltd.							
Polysiloxane: INTERFINE 878		1	50/69	14.4	4 hrs	#	246
Epoxy Acrylic: INTERFINE 629 HS		1	50/77	13	8 hrs	#	335
Undercoat/Tie-Coat (if required): INTERGARD 263		1	75/132	7.6	8 hrs	5 days	379
Jotun Paints (Europe) Ltd.							
Polysiloxane: HARDTOP OPTIMA		1	75/99	10.1	4 hrs	#	215
Cured Acrylic: HARDTOP CA		1	75/125	8	5 hrs	#	340
Marker Coating Systems Ltd.							
Polysiloxane: (AMERON PSX700)		1	75/83	12	3 hrs	#	164
Epoxy Acrylic: SIGMADUR 540 (7740)		1	50/93	10.8	8 hrs	#	411
Urethane Polyester: SIGMADUR ONE (7533)		1	50/94	10.8	8 hrs	#	400

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
J. ABOVE WATER HULL & SUPERSTRUCTURE FINISH (2) Light Weatherwork Grey BS381C 676 Sherwin-Williams Protective & Marine Coatings Silicone Alkyd: Kem-Kromik A165 Acrylic Epoxy: Acrolon™ C750V2 Tie Coat (if req'd): Sherwin M671		1 1 1	35/69 50/94 35/67	14.6 10.6 14.9	16 hrs 3 hrs 4 hrs	# # #	407 364 380
K. FLIGHT & WEATHERDECK SYSTEMS – DEF STAN 80-134 Chugoku Paints (UK) Ltd. Primer: UMEGUARD HS SILVER (a). Hangar Doors Finish Light Weatherwork Grey BS381C 676 [Factory finished – Interpon 610 – see International Paints WSS] (b). Flight & Weatherdeck – Type 2 Non-Skid Finish (coarse) CAMIDECK FINISH Type 2 Extra Dark Sea Grey BS381C 640 CAMIDECK REPAIR KIT Type 2 available to order (2l) (c). Hangar & Weatherdeck – Type 1 Non-Skid Finish (fine) CAMIDECK FINISH Type 1 Hangar deck: Dark Admiralty Grey BS381C 632 CAMIDECK REPAIR KIT Type 1 available to order (2l) (d). Gloss for Deck Margins: Extra Dark Sea Grey BS381C 640 UMEGUARD HS (Grey)		1 2 2 2	125/162 208/353 190/352 75/97	5.93 2.84 2.84 5.93	20 hrs 16 hrs 16 hrs 20 hrs	30 days # # 7 days	158 374 374 158

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
K. FLIGHT & WEATHERDECK SYSTEMS – DEF STAN 80-134 (2)							
Hempel Paints Ltd							
(a). Hangar Doors							
N/A							
(b). Flight & Weatherdeck – Type 2 Non-Skid Finish (coarse)							
Primer: HEMPADUR 45880 MIO 12430		1	100/125	8.0	7 hrs	#	198
Finish: HEMPEL'S NON-SKID 45710		2	400/526	1.9	6 hrs	30 days	206
Extra Dark Sea Grey BS381C 640							
Alternative – HEMPADUR SPRAY-GUARD 35490		1	2500/2500	0.4	8 hrs	#	0
Type 2 Repair Kit: HEMPEL'S DECK REPAIR KIT 941GB							
(c). Hanger & Weatherdeck – Type 1 Non-Skid Finish (fine)							
Primer: HEMPADUR 45880 MIO 12430		1	100/125	8.0	7 hrs	#	198
Hangar Deck – Finish: HEMPEL'S NON-SKID 45340		2	200/317	3.2	6 hrs	30 days	335
Dark Admiralty Grey BS381C 632							
Weatherdeck – Finish: HEMPEL'S NON-SKID 45340		2	200/317	3.2	6 hrs	30 days	335
Extra Dark Sea Grey BS381C 640							
Type 1 Repair Kit: HEMPEL'S DECK REPAIR KIT 942GB							
(d). Gloss for Deck Margins:							
Extra Dark Sea Grey BS381C 640							
HEMPADUR 45143		2	125/208	5.0	3 hrs	30 days	330
International Paint Ltd.							
(a). Hangar Doors							
[Factory finished – Interpon 610 – powder coating]		1	100/	N/A	N/A	N/A	0
Markings:							
Epoxy Acrylic: INTERFINE 629 HS		1	50/77	13	8 hrs	#	339
Polysiloxane: INTERFINE 878		1	50/69	14.4	4 hrs	#	246

ANNEX B

Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
K. FLIGHT & WEATHERDECK SYSTEMS – DEF STAN 80-134 (3)							
International Paint Ltd.							
(b). Flight & Weatherdeck – Type 2 Non-Skid Finish (coarse)							
Primer: INTERGARD 5000 Dawn Grey BS4800 00A01		1	150/183	5.47	12 hrs	14 days	155
Finish: INTERSHIELD 851 Extra Dark Sea Grey BS381C 640		2	300/390	1.28	16 hrs	#	169
Type 2 Repair Kit							
INTERSHIELD 851 REP KIT Extra Dark Sea Grey BS381C 640							
(c). Hanger & Weatherdeck – Type 1 Non-Skid Finish (fine)							
Primer: INTERGARD 5000 Dawn Grey BS4800 00A01		1	150/183	5.47	12 hrs	14 days	155
Hangar Deck: INTERSHIELD 852 Dark Admiralty Grey BS381C 632		2	200/267	1.92	12 hrs	#	134
Weatherdeck: INTERSHIELD 852 Extra Dark Sea Grey BS381C 640		2	200/267	1.92	12 hrs	#	134
Type 1 Repair Kit:							
INTERSHIELD 852 REPAIR KIT – Dark Admiralty Grey BS381C 632							
(d). Gloss for Deck Margins:							
Extra Dark Sea Grey BS381C 640							
INTERGARD 740 Extra Dark Sea Grey BS381C 640		1	50/98	10.2	16 hrs	#	420
Jotun Paints (Europe) Ltd.							
(a). Hangar Doors							
[Factory finished – Interpon 610 – see International Paints WSS]							
(b). Flight & Weatherdeck – Type 2 Non-Skid Finish (coarse)							
Primer: JOTAMASTIC 87 (Grey)		1	150/183	5.5	10 hrs	#	150
Finish: JOTA ARMOUR (BS381C 640)		2	375/417	2.4	14 hrs	#	70
Type 2 Repair Kit:							
JOTA ARMOUR FINE (BS381C 640)		1	750/	1.2	1.2	#	70
(c). Hanger & Weatherdeck – Type 1 Non-Skid Finish (Fine)							
Primer: JOTAMASTIC 87 (Grey)		1	150/183	5.5	10 hrs	#	150
Finish: JOTA ARMOUR FINE (BS381C 632 or 640)		2	200/222	4.5	14 hrs	#	70

ANNEX B

Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
K. FLIGHT & WEATHERDECK SYSTEMS – DEF STAN 80-134 (4)							
Jotun Paints (Europe) Ltd.							
(c). Hanger & Weatherdeck – Type 1 Non-Skid Finish (Fine)							
Type 1 Repair Kit:							
JOTA ARMOUR FINE REPAIR KIT (BS381C 632 or 640)		1	400	2.2	14 hrs	#	70
(d). Gloss for Deck Margins: Extra Dark Sea Grey BS381C 640		1	75/125	8	5 hrs	#	340
<u>Cured acrylic:</u> HARDFIN CA (BS381C 676)		1	75/99	10.1	4 hrs	#	215
<u>Polysiloxane:</u> HARDFIN OPTIMA (BS381C 676)							
Maker Coating Systems Ltd.							
(a). Hangar Doors							
[Factory finished – Interpon 610 – see International Paints WSS]							
(b). Flight & Weatherdeck – Type 2 Non-Skid Finish (coarse)							
<u>Primer:</u> AMERLOCK 400C		1	125/147	7	16 hrs	#	106
<u>Finish:</u> AMERLOCK 400 NS Extra Dark Sea Grey BS381C 640		2	400/	2.3	16 hrs	#	106
Type 2 Repair Kit:							
AMERLOCK 400 NS T2R							
(c). Hanger & Weatherdeck – Type 1 Non-Skid Finish (Fine)							
<u>Primer:</u> AMERLOCK 400C		1	125/147	7	16 hrs	#	106
<u>Hangar Deck:</u> AMERLOCK 400 NS Dark Admiralty Grey BS 381C 632		2	300/	4	16 hrs	#	106
<u>Weatherdeck:</u> AMERLOCK 400 NS Extra Dark Sea Grey BS 381C 640		2	300/	4	16 hrs	#	106
Type 1 Repair Kit:							
AMERLOCK 400 NS T1R		2	300/	4	16 hrs	#	106
(d). Gloss for Deck Margins: Extra Dark Sea Grey BS381C 640		2	125/147	7	16 hrs	#	106
AMERLOCK 400C BS381C 640							

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
K. FLIGHT & WEATHERDECK SYSTEMS – DEF STAN 80-134 (5) PPG Protective & Marine Coatings (a). Hangar Doors [Factory finished – Interpon 610 – see International Paints WSS] (b). Flight & Weatherdeck – Type 2 Non-Skid Finish (coarse) Primer: AMERCOAT 137 Finish: AMERCOAT 138L Extra Dark Sea Grey BS 381C 640 Type 2 Repair Kit (c). Hanger & Weatherdeck – Type 1 Non-Skid Finish (Fine) Primer: AMERCOAT 137 DECK PRIMER Hangar Deck: AMERCOAT 138G Dark Admiralty Grey BS 381C 632 Weatherdeck: AMERCOAT 138G Extra Dark Sea Grey BS 381C 640 Type 1 Repair Kit: (d). Gloss for Deck Margins: Extra Dark Sea Grey BS381C 640 SIGMADUR 540 Sherwin-Williams Protective & Marine Coatings (a). Hangar Doors [Factory finished – Interpon 610 – see International Paints WSS] (b). Flight & Weatherdeck – Type 2 Non-Skid Finish (coarse) Primer: Macropoxy® C425V2 Finish: EPIDEK M339 Extra Dark Sea Grey Type 2 Repair Kit EPIDEK M339 (c). Hanger & Weatherdeck – Type 1 Non-Skid Finish (Fine) Primer: Macropoxy® C425V2 Hangar Deck: EPIDEK M377 Dark Admiralty Grey BS381C 632							
		1	125/187	3.9	12 hrs	3 days	264
		1	1300/	0.6	24 hrs	#	
		1	125/187	3.9	12 hrs	3 days	264
		1	1300/1585	0.6	24 hrs	#	168
		1	1300/1585	0.6	24 hrs	#	168
		1	50/93	12	8 hrs	#	411
		1	125/167	6.0	4 hrs	#	186
		2	200/282	1.8	4 hrs	#	250
			/282				
		1	125/167	6.0	4 hrs	#	186
		2	250/403	2.5	4 hrs	#	330

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
K. FLIGHT & WEATHERDECK SYSTEMS – DEF STAN 80-134 (6) Sherwin-Williams Protective & Marine Coatings (c). Hanger & Weatherdeck – Type 1 Non-Skid Finish (Fine) Type 1 Repair Kit: EPIDEK M337 (d). Gloss for Deck Margins: Extra Dark Sea Grey BS381C 640 Macropoxy® M262		1	75/		#	354	
L & M. INTERIOR DRY COMPARTMENTS Chugoku Paints (UK) Ltd. <u>Primer:</u> BANNOH 1500 Alternative: PRIMER – TBA Finish TBA		1	125/171	5.84	9 hrs	120 days	286
Hempel Paints Ltd Standard Primer: HEMPADUR 45880 MIO 12430 Standard Finish: HEMUCRYL ENAMEL 58100 BS4800 00A01		1	125/156	6.4	7 hrs	#	198
International Paint Ltd. <u>Primer:</u> INTERGARD 5000 Dawn Grey <u>Finish:</u> INTERCRYL 700 BS4800 00A01		1	125/152	6.56	12 hrs	#	155
Jotun Paints (Europe) Ltd. Standard Primer: WATERFINE ACRYLIC PRIMER (White) Alternative Primer (2 pack): WATERFINE PRIMER (White) Finish: TBC		1	35/85	11.42	60 mins	#	50
Maker Coating Systems Ltd. <u>Primer:</u> AMERLOCK 400C <u>Finish:</u> AMERLOCK 400C BS4800 00A01 Alternative Primer: SIGMA AQUACOVER 25 (7150) Alternative Finish: SIGMA AQUACOVER 45 (7250)		1	100/118	8.75	16 hrs	#	106
		1	100/118	8.75	16 hrs	#	106
		1	75/170	5.7	4 hrs	#	25
		1	50/147	6.8	24 hrs	#	10

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
L & M. <u>INTERIOR DRY COMPARTMENTS (2)</u>							
PPG Protective & Marine Coatings		1	75/170	6.6	4 hrs	#	31
Standard Primer: SIGMA AQUACOVER (7150)		1	50/147	6.8	6 hrs	#	17
Finish: SIGMA AQUACOVER 45 (7250)		1	75/86	11.6	5 hrs	30 days	153
Alternative Primer: SIGMACOVER 240 (7991)		1	75/86	11.6	5 hrs	30 days	153
Finish: SIGMACOVER 240 (7991)		1	125/167	6.0	5 hrs	#	186
Sherwin-Williams Protective & Marine Coatings		1	25/	15.6	3 hrs	#	78
Primer: Macropoxy® C425V2							
Finish: Sher-CrylTM M770 BS4800 00A01		1					
N & O. <u>INTERIOR WET COMPARTMENTS</u>							
Chugoku Paints (UK) Ltd.		1	125/171	5.84	9 hrs	120 days	286
Primer: BANNOH 1500							
<i>Standard Finish TBA</i>							
<i>Citadel Lobby Finish TBA</i>							
<i>Cleansing Stations Finish TBA</i>							
<i>Magazine Finish: Finish TBA</i>							
Hempel Paints Ltd							
Standard Primer: HEMPADUR 45880 MIO 12430		1	125/156	6.4	7 hrs	#	198
Standard Areas Finish: HEMUDUR FC 48582 BS4800 00A01		1	80/145	6.9	12 hrs	15 days	27
<i>Citadel Lobby Finish:</i> HEMUDUR FC 48582 BS4800 00A01 or Grey BS381C 676		1	80/145	6.9	12 hrs	15 days	27
<i>Cleansing Stations Finish:</i> HEMPADUR 45143 <i>White</i>		1	100/167	6.0	8 hrs	#	375

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
N & O. INTERIOR WET COMPARTMENTS (2)							
Hempel Paints Ltd		1	80/145	6.9	1 hrs	15 days	27
<u>Magazine Use Finish:</u> HEMUDUR FC48582 BS4800 00A01							
International Paint Ltd.							
Finish colour either White BS 4800 00A01 or Grey BS 381C 676							
<u>Primer:</u> INTERGARD 5000		1	125/152	6.56	24 hrs	#	155
<u>Dark Grey</u>							
<u>Standard Areas Finish:</u> INTERGARD 1735		1	50/100	11.2	12 hrs	#	132
<u>Citadel Lobby Finish:</u> INTERGARD 1735		1	50/100	11.2	12 hrs	#	132
<u>Cleansing Stations Finish:</u> INTERFINE 979 (overcoat primer within 4 days)		1	125/164	7.6	4 hrs	#	165
<u>Magazines Finish:</u> INTERGARD 1735		1	50/100	11.2	12 hrs	#	132
Jotun Paints (Europe) Ltd.							
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
<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
<u>(Maker Coatings) Finish:</u> AMERON PSX 700 White		1	125/	7.2	4.5 hrs	#	120
Maker Coating Systems Ltd.							
Finish colour either BS 4800 00A01 or Grey BS 381C 676							
<u>Primer:</u> AMERLOCK 400C		1	100/118	8.75	16 hrs	#	106
<u>Standard Finish:</u> AMERLOCK 400C		1	100/118	8.75	16 hrs	#	106
<u>Citadel Lobby Finish:</u> AMERLOCK 400C or Grey BS381C 676		1	100/118	8.75	16 hrs	#	106
<u>Magazines Finish:</u> AMERLOCK 400C		1	100/118	8.75	16 hrs	#	106
<u>Cleansing Stations Primer:</u> AMERLOCK 400C		1	125/147	7	16 hrs	#	106
<u>Cleansing Stations Finish:</u> AMERON PSX 700		1	125/139	7.2	4.5 hrs	#	120
PPG Protective & Marine Coatings							
Finish colour either White BS 4800 00A01 or Grey BS 381C 676							
<u>Standard Areas Primer:</u> SIGMACOVER 240 (7991)		1	100/115	8.7	5 hrs	30 days	153
<u>Finish:</u> SIGMACOVER 240 (7991)		1	100/115	8.7	5 hrs	30 days	153

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
N & O. INTERIOR WET COMPARTMENTS (3) PPG Protective & Marine Coatings Citadel Lobby Primer: SIGMACOVER 240 (7991) & Magazine Finish: SIGMA SHIELD 420 (7951) or Grey BS 381C 676		1	75/86	11.6	5 hrs	30 days	153
Cleansing Stations: SIGMAGUARD CSF 650 (7443) Sherwin-Williams Protective & Marine Coatings Finish colour either BS 4800 00A01 or Grey BS 381C 676		1	350/350	2.9	24 hrs	20 days	143
Primer: Macropoxy® C425V2 Standard Areas Finish: Macropoxy® M630V2 BS4800 00A01 Citadel lobby Finish: Macropoxy® M630V2 - Colour either: BS4800 00A01 or Grey BS381C 676 Cleansing Stations Finish: Macropoxy® H766 White Magazine Finish: Macropoxy® M630V2 BS4800 00A01		1	125/167	6.8	5 hrs	#	186
P. INTERIOR DECKS BS4800 Green 14C39 Chugoku Paints (UK) Ltd. Standard Primer: BANNOH 1500 Alternative primer TBC Cleansing Stations Primer: BANNOH 1500 Finish TBA Hempel Paints Ltd Primer: HEMPADUR 45880 MIO12430 Finish: HEMUDUR FC 48582 Cleansing Station Finish: HEMPADUR 45143 International Paint Ltd. INTERGARD 5000 INTERGARD 1735 Green Cleansing Stations Finish: INTERFINE 979(Overcoat primer within 4 days)		1	125/171	5.84	9 hrs	120 days	286
		1	125/171	5.84	9 hrs	120 days	286
		1	125/156	6.4	7 hrs	#	198
		1	80/145	6.9	12 hrs	15 days	27
		1	100/167	6.0	8 hrs	#	375
		1	150/183	5.47	24 hrs	#	155
		1	50/100	11.2	12 hrs	#	
		1	125/164	7.6	4 hrs	#	165

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
P. INTERIOR DECKS (2) BS4800 Green 14C39							
Jotun Paints (Europe) Ltd.							
Primer: WATERFINE PRIMER (White)		1	100/	4.6	1.5 hrs	#	60
Finish: WATERFINE PRIMER (BS4800 14C39)		1 or 2	40/	11.6	1.5 hrs	#	60
<u>Cleansing Stations – Primer:</u> AMERLOCK 400C (Maker Coatings) <u>Finish:</u> AMERON PSX 700 BS4800 14C39		1	125/147	7	16 hrs	#	106
<u>Maker Coating Systems Ltd.</u>		2	125/139	7.2	4.5 hrs	#	120
Primer: AMERLOCK 400C		1	100/118	8.75	16 hrs	#	106
Finish: AMERLOCK 400C		1	100/118	8.75	16 hrs	#	106
<u>Cleansing Stations Finish:</u> AMERON PSX 700		1	125/139	7.2	4.5 hrs	#	120
PPG Protective & Marine Coatings							
<u>Standard & Cleansing Stations</u>							
Primer: SIGMACOVER 240 (7991)		1	100/115	8.7	5 hrs	30 days	153
Finish: SIGMACOVER 400 (7988)		1	100/123	8.5	16 hrs	30 days	180
Sherwin-Williams Protective & Marine Coatings							
Standard Primer: Macropoxy® C425V2		1	125/167	6.0	5 hrs	#	186
Finish: Macropoxy® M630V2		1	75/150	6.8	24 hrs	#	0
<u>Cleansing Stations Finish:</u> Macropoxy® H766		1	40/	14.0	5 hrs	#	395
Q. BATTERY COMPARTMENTS BS4800 00A01							
Chugoku Paints (UK) Ltd.							
Primer: BANNOH 1500		1	125/171	5.84	9 hrs	120 days	286
Finish TBA							
Hempel Paints Ltd							
Primer: HEMPADUR 45880 MIO 12430		1	150/188	6.0	8 hrs	#	198
International Paint Ltd.							
INTERGARD 5000 BS4800 00A01		1	150/183	5.47	12 hrs	#	155
Jotun Paints (Europe) Ltd.							
Primer: WATERFINE PRIMER (White)		1	100/	4.6	1.5 hrs	#	60
Finish: WATERFINE PRIMER (BS4800 00A01)		1 or 2	40/	11.6	1.5 hrs	#	60

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
Q. BATTERY COMPARTMENTS (2) BS4800 00A01							
<u>Maker Coating Systems Ltd.</u>							
Primer: AMERLOCK 400C		1	100/118	8.75	16 hrs	#	106
Finish: AMERLOCK 400C		1	100/118	8.75	16 hrs	#	106
<u>PPG Protective & Marine Coatings</u>							
Primer: SIGMACOVER 240 (7991)		1	100/115	8.7	5 hrs	30 days	153
Finish: SIGMACOVER 400 (7988)		1	100/118	8.5	16 hrs	30 days	180
<u>Sherwin-Williams Protective & Marine Coatings</u>							
Primer: Macropoxy® C425V2		1	100/133	7.5	4 hrs	#	197
Finish: Macropoxy® M630V2 BS4800 00A01		1	75/150	6.8	24 hrs	#	0
R. CABLE LOCKERS & COFFERDAMS							
<u>Chugoku Paints (UK) Ltd.</u>							
BANNOH 1500		1	125/171	5.84	9 hrs	120 days	286
<u>Hempel Paints Ltd</u>							
HEMPADUR 45880 White		1	150/188	6.0	8 hrs	#	217
<u>International Paint Ltd.</u>							
INTERGARD 5000		1	150/183	5.46	12 hrs	3 months	155
<u>Jotun Paints (Europe) Ltd.</u>							
Standard: JOTAMASTIC 80 (Alu. red toned)		1	175/219	4.6	10 hrs	#	145
Alternative: JOTACOTE UNIVERSAL (Alu. red toned)		1	200/278	3.6	4 hrs	#	240
<u>Maker Coating Systems Ltd.</u>							
SIGMA SHIELD 880		1	350/	2.9	3.5 hrs	14 days	207
<u>PPG Protective & Marine Coatings</u>							
SIGMACOVER 240 (7991)		1	150/172	5.8	5 hrs	30 days	153
<u>Sherwin-Williams Protective & Marine Coatings</u>							
Macropoxy® L524 WHITE		2	125/195	5.1	12 hrs	#	296
S. BLACK/GREY & WATER BALLAST TANKS IMO PSPC							
<u>Chugoku Paints (UK) Ltd.</u>							
BANNOH 1500 Red		1	160/219	4.56	9 hrs	30 days	286
BANNOH 1500 Grey		1	160/219	4.56	9 hrs	30 days	286

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
S. BLACK/GREY & WATER BALLAST TANKS (2) IMO PSPC							
Chuqoku Paints (UK) Ltd.		1	300/300	3.3	12 hrs	7 days	175
Spot Repair CMP NOVA 5000 Barrier							
Hempel Paints Ltd		2	160/222	4.5	6 hrs	90 days	275
Water Ballast Tanks: HEMPADUR QUATTRO 17634		3	100/147	6.8	36 hrs	5 days	320
Black & Grey Water Tasks: HEMPADUR 85671							
International Paint Ltd.		2	160/195	5.13	12 hrs	3 months	155
Water Ballast Tanks: INTERGARD 5000		2	125/164	6.08	6 hrs	30 days	212
Black & Grey Water Tanks: INTERLINE 850		3	100/143	7	44 hrs	25 days	290
Jotun Paints (Europe) Ltd.							
<u>Water Ballast Tanks</u>							
Standard: BALLOXY HB LIGHT (Green)		1	160/195	5.1	10 hrs	#	150
BALLOXY HB LIGHT (Green)		1	160/195	5.1	10 hrs	#	150
Alternative: JOTACOTE UNIVERSAL (Alu. red toned)		1	160/222	4.5	4 hrs	#	240
JOTACOTE UNIVERSAL (Grey)		1	160/222	4.5	4 hrs	#	240
<u>Black & Grey Water Tanks</u>							
Standard: TANKGUARD STORAGE (Light red)		1	150/238	4.2	10 hrs	30 days	
TANKGUARD STORAGE (Red)		1	150/238	4.2	10 hrs	30 days	
Alternative: TANKGUARD DW (Light grey)		1	150/150	6.7	12 hrs	5 days	
TANKGUARD DW (White)		1	150/150	6.7	12 hrs	5 days	
Marker Coating Systems Ltd.							
CORROLESS EPF Black or Buff		1	200/	4.8	16 hrs	#	80
CORROLESS RF35 White		1	200/	4.8	16 hrs		93
PPG Protective & Marine Coatings							
Water Ballast Tanks: SIGMACOVER 240 (7991)		2	160/184	5.4	5 hrs	30 days	153
Black / Grey Water Tanks: SIGMAGUARD CSF650 (7443)		1	350/350	2.9	24 hrs	20 days	143

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
S. BLACK/GREY & WATER BALLAST TANKS IMO PSPC (3) <u>Sherwin-Williams Protective & Marine Coatings</u> Water Ballast Tanks: Macropoxy® L524 (typical dft 125. care req'd on overlap at 160) Black & Grey Water Tanks: Macropoxy® C251		2	160/250	3.9	12 hrs	#	296
		2	125/	5.9	24 hrs	28 days	235
T. MACHINERY SPACE BILGES <u>Chugoku Paints (UK) Ltd.</u> BANNOH 1500 <u>Hempel Paints Ltd</u> HEMPADUR 45880 White <u>International Paint Ltd.</u> INTERGARD 5000 White <u>Jotun Paints (Europe) Ltd.</u> Primer: JOTACOTE UNIVERSAL (Alu. red toned) Finish: HARDTOP CA (BS4800 00A01) <u>Maker Coating Systems Ltd.</u> AMERLOCK 400C WHITE <u>PPG Protective & Marine Coatings</u> SIGMACOVER 240 (7991)		2	125/171	4.87	9 hrs	30 days	286
		2	125/156	6.4	7 hrs	#	217
		1	175/213	4.68	12 hrs	3 months	155
		1	125/174	5.8	4 hrs	#	240
		1 or 2	75/125	10.1	4 hrs	#	215
		2	125/147	7	16 hrs	#	106
		1	175/201	5	5 hrs	30 days	153
<u>Sherwin-Williams Protective & Marine Coatings</u> Macropoxy® L524 Optional Hygiene Coat: Macropoxy® M630V2		2	125/195	5.1	12 hrs	#	296
		1	75/150	6.8	12 hrs	#	0
U. AVCAT, DIESO, LUB & HYDRAULIC OIL TANKS SYSTEM DEF STAN 80-97 (HIGH SOLIDS) <u>Chugoku Paints (UK) Ltd.</u> EPICON T-800							
		2	125/192	5.2	16 hrs	21 days	359
<u>Hempel Paints Ltd</u> HEMPADUR 85671		3	100/147	6.8	36 hrs	21 days	320

ANNEX B

Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
U. AVCAT, DIESO, LUB & HYDRAULIC OIL TANKS SYSTEM DEF STAN 80-97 (HIGH SOLIDS) (2)							
<u>International Paint Ltd.</u>							
INTERLINE 850		2	125/164	6.08	6 hrs	30 days	225
<u>Jotun Paints (Europe) Ltd.</u>							
TANKGUARD STORAGE (Light red)		1	125/198	5.0	10 hrs	30 days	310
TANKGUARD STORAGE (Light grey)		1	125/198	5.0	10 hrs	30 days	310
<u>Maker Coating Systems Ltd.</u>							
CORROLESS EPF Black or Buff		1	200/	4.8	16 hrs	3 days	80
CORROLESS RF35 White		1	200/	4.8	16 hrs	3 days	93
<u>PPG Protective & Marine Coatings</u>							
SIGMAGUARD CSF 650 (7443)		1	350/350	2.9	24 hrs	20 days	143
<u>Sherwin-Williams Protective & Marine Coatings</u>							
Macropoxy® M922		2	200/	5.4	4 hrs	14 days	143
V. POTABLE WATER TANKS							
<u>Chugoku Paints (UK) Ltd.</u>							
CLEANKEEP 5000		1 (2)	300/300	3.33	32 hrs	14 days	0
<u>Hempel Paints Ltd</u>							
HEMPADUR 35560		2	200/200	5.0	24 hrs	30 days	0
<u>International Paint Ltd.</u>							
INTERLINE 925		1	300/300	3.33	18 hrs	3 days	1
<u>Jotun Paints (Europe) Ltd.</u>							
TANKGUARD DW (Light grey)		1	150/150	6.7	12 hrs	5 days	2
TANKGUARD DW (White)		1	150/150	6.7	12 hrs	5 days	2
<u>Maker Coating Systems Ltd.</u>							
CORROLESS EPF Black or Buff		1	200/	4.8	16 hrs	3 days	80
CORROLESS RF35 White		1	200/	4.8	16 hrs	3 days	93

ANNEX B

Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
V. POTABLE WATER TANKS (2) <u>PPG Protective & Marine Coatings</u> SIGMAGUARD CSF 585 (7785) <u>Sherwin-Williams Protective & Marine Coatings</u> Macropoxy® P300		1	300/	3.3	24 hrs	20 days	6
		1	500/	2.0	6 hrs	36 hrs	0
W. AQUEOUS FILM-FORMING FOAM (AFFF) TANKS <u>Chugoku Paints (UK) Ltd.</u>							
EPICON T-800	2	125/192	5.2	16 hrs	21 days	359	
<u>Hempel Paints Ltd</u>							
HEMPADUR 85671	3	100/147	6.8	36 hrs	21 days	320	
<u>International Paint Ltd.</u>							
INTERLINE 704	2	125/236	4.24	23 hrs	21 days	385	
<u>Jotun Paints (Europe) Ltd.</u>							
TANKGUARD DW (Light grey)	1	150/150	6.7	12 hrs	5 days	2	
TANKGUARD DW (White)	1	150/150	6.7	12 hrs	5 days	2	
<u>Marker Coating Systems Ltd.</u>							
Standard: CORROLESS EPF Black or Buff	1	200/	4.8	16 hrs	3 days	80	
CORROLESS RF35 Grey	1	200/	4.8	16 hrs	3 days	93	
Alternative: SIGMAGUARD CSF 650 (7443)	1	200/200	2.9	24 hrs	20 days	143	
<u>PPG Protective & Marine Coatings</u>							
SIGMAGUARD CSF 650 (7443)	1	350/350	2.9	24 hrs	20 days	143	
<u>Sherwin-Williams Protective & Marine Coatings</u>							
Macropoxy® C251	2	125/	5.9	24 hrs	28 days	235	
X. DEMINERALISED WATER TANKS (Max Temperature 90°C) <u>Chugoku Paints (UK) Ltd.</u>							
Standard: EPICON T-800	2	125/192	5.2	16 hrs	21 days	359	
Alternative: CLEANKEEP 5000 – solvent free	1 (2)	300/300	3.33	32 hrs	14 days	0	
Alternative: EPICON T-800 HS GF Glass flake	2	125/192	5.28	24 hrs	7 days	349	

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
X. DEMINERALISED WATER TANKS (Max Temperature 90°C) (2)							
Hempel Paints Ltd							
HEMPADUR 85671		3	100/147	6.8	36 hrs	21 days	320
International Paint Ltd.							
INTERLINE 925 (up to 60°C only)		1	300/300	3.33	18 hrs	3 days	1
Jotun Paints (Europe) Ltd.							
Standard: TANKGUARD DW (Light grey)		1	125/125	5.0	10 hrs	30 days	310
TANKGUARD DW (Light red)		1	125/125	5.0	10 hrs	30 days	310
TANKGUARD DW (Light grey)		1	125/125	5.0	10 hrs	30 days	310
Alternative: TANKGUARD PLUS (White)		1	100/159	7.0	20 hrs	21 days	300
TANKGUARD PLUS (Buff)		1	100/159	7.0	20 hrs	21 days	300
TANKGUARD PLUS (White)		1	100/159	7.0	20 hrs	21 days	300
Maker Coating Systems Ltd.							
Standard: CORROLESS EPF Black or Buff		1	200/	4.8	16 hrs	3 days	80
CORROLESS RF35 Grey		1	200/	4.8	16 hrs	3 days	93
Alternative: SIGMAGUARD CSF 650 (7443)		1	350/250	2.9	24 hrs	20 days	143
PPG Protective & Marine Coatings							
SIGMAGUARD CSF 650 (7443)		1	350/350	2.9	24 hrs	20 days	143
Sherwin-Williams Protective & Marine Coatings							
Macropoxy® C251		2	125/	5.9	24 hrs	28 days	235
Y. EPOXY HOLDING PRIMER							
Chugoku Paints (UK) Ltd.							
NZ PRIMER S		1	25/83	12	16 hrs	120 days	659
Hempel Paints Ltd							
HEMPADUR 15570		1	40/74	13.5	#	#	420
International Paint Ltd.							
Standard: INTERGARD 269		1	30/64	15.67	6 hrs	#	411
Alternative & Maintenance: INTERGARD 276		1	40/85	11.75	6 hrs	#	411

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
<u>Y. EPOXY HOLDING PRIMER (2)</u>							
<u>Jotun Paints (Europe) Ltd.</u>		1	20/80	12.5	7 hrs		610
MUKI EPS (Red)							
<u>Maker Coating Systems Ltd.</u>		1	50/88	11.4	8 hrs	6 months	432
SIGMACOVER 280 (7417)							
<u>PPG Protective & Marine Coatings</u>		1	50/88	11.4	8 hrs		430
SIGMACOVER 280 (7417)							
<u>Sherwin-Williams Protective & Marine Coatings</u>							
Macropoxy® L574		1	25/	11.6	3 hrs	#	594
Alternative & maintenance: Macropoxy® M111		1	60/	9.0	4 hrs	#	383
<u>Z. PRIMERS FOR NON-FERROUS METALS & FRP</u>							
<u>Chugoku Paints (UK) Ltd.</u>							
Aluminium: ALP 500		1	50/86	11.6	10 hrs	#	414
Stainless Steel: BANNOH 1500 Or Primer TBA		1	125/171	5.84	9 hrs	120 days	286
Zinc Spray & Galvanise: GALVANITE 200		1	30/64	12.7	4 hrs	30 days	587
FRP Indicator Coat: CLEANKEEP 5000		1	300/300	3.33	32 hrs	14 days	0
<u>Hempel Paints Ltd.</u>							
Aluminium, Stainless Steel, Zinc Spray & Galvanised surfaces: Standard: HEMPADUR 15553 (2 pack)		1	50/91	11	2 hrs	#	400
Alternative: HEMUCRYL TIE COAT 18200 (1 pack)		1	20/53	19	24 hrs	#	40
FRP Indicator Coat: HEMPADUR 35560		1	200/200	5	8 hrs	30 days	0
Using Y. Epoxy Holding Primer as tie-coat for subsequent coats		1	40/	13.5	4 hrs	#	420
HIGH PROTECT 35651 Grey (repair only)		1	200/200	5	8 hrs	18 hrs	10
<u>International Paint Ltd.</u>							
Aluminium, Stainless Steel, Zinc Spray & Galvanised surfaces: Standard: INTERGARD 269		1	30/64	15.67	6 hrs	#	411
Alternative: INTERGARD 276		1	40/85	11.75	6 hrs	#	411

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Proposed Systems/Materials	WAR Number	No. of coats	NDFT / NWFT per coat Microns	Theo SR m ² /litre	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per ltr
Z. PRIMERS FOR NON-FERROUS METALS & FRP (2)							
International Paint Ltd.		1	300/300	5.0	18 hrs	3 days	1
FRP Indicator Coat: INTERLINE 925 Cream							
Jotun Paints (Europe) Ltd.							
Aluminium, Stainless steel, Zinc Spray or Galvanised surfaces:							
WATERFINE PRIMER (Primer)		1	60/	7.6	1.5 hrs	#	60
FRP Indicator Coat: PENGUARD HB (White)		2	150/278	3.6	8 hrs	#	390
Maker Coating Systems Ltd.							
Stainless Steel: SIGMACOVER 280		1	50/88	11.4	8 hrs	#	432
Aluminium/ Zinc Spray/ Galvanised surfaces:		1	125/147	7	16 hrs	#	106
AMERLOCK 400C							
FRP Indicator Coat: AMERLOCK 400C Green RAL 6011		2	125/147	7	16 hrs	#	106
PPG Protective & Marine Coatings							
Aluminium / Stainless Steel / Zinc Spray / Galvanise:							
SIGMACOVER 280 (7417)		1	50/88	11.4	8 hrs	3 months	432
FRP Indicator coat: AMERLOCK 400C Green RAL 6011		2	125/147	7	16 hrs	#	106
Sherwin-Williams Protective & Marine Coatings							
Aluminium / Galvanise / Stainless Steel:							
Macropoxy® L425		1	35/58	17.1	5 hrs	#	346
Zinc Spray: Macropoxy® L574		1	25/	11.6	3 hrs	#	594
FRP Indicator Coat: Macropoxy® C425V2 Off white		2	150/200	5	4 hrs	#	186

Colours in red – colour code to be identified

Notes:

1. The recoat intervals published above are based on the manufacturer's figures quoted for 20°C (Chugoku Paints, Hempel UK, Maker Coating Systems, PPG Protective & Marine Coatings), 23°C (Jotun Coatings, Sherwin Williams Protective & Marine Coatings) and 25°C (International Paints).
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.

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3. # = No 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 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 epoxy holding primer Y, when appropriate.

ANNEX C

ANNEX C: SUBMARINE SYSTEMS

Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
S1. <u>PRESSURE HULL & EXTERNAL SUPERSTRUCTURE PRIMER</u> Untiled Areas <u>Chugoku Paints (UK) Ltd.</u> UMEGUARD SX HS Black <u>Hempel Paints Ltd.</u> HEMPADUR 45880 MIO Black <u>International Paint Ltd.</u> INTERGARD 5000 <u>Jotun Paints (Europe) Ltd.</u> PRIMASTIC UNIVERSAL R/T (STD) <u>Maker Coating Systems Ltd.</u> CORROLESS EPF <u>PPG Protective & Marine Coatings.</u> SIGMACOVER 240 (7991) <u>Sherwin-Williams Protective & Marine Coatings.</u> Macropoxy® M922m Mastic Aluminium		1	150/19 5	5.13	28 hrs	7 days	232	EXT
		2	175/21 9	4.6	8 hrs	30 days	198	EXT
		1	175/21 3	4.68	12 hrs	2 months	155	BLI (A5713)
		1	200/-	3.75	10 hrs	#	194	BLI (A1764)
		1	200/-	4.8	16 hrs	3 days	80	BLI (A1773)
		1	175/20 1	5	5 hrs	30 days	153	EXT
		2	200/-	4.2	4 hrs	#	146	EXT
S2. <u>ANTIFOULING SYSTEM(S)</u> Black Finish <u>FOUL RELEASE / DEFENCE (FRC / FD)</u> Sonar Dome <u>Chugoku Paints (UK) Ltd.</u> CMP BIOCLEAN SG R		1	125/20 8	4.86	6 hrs	#	406	EXT
CMP BIOCLEAN R		1	100/15 4	6.5	4 hrs	24 hrs	278	EXT
CMP BIOCLEAN HB Pure silicone finish		1	150/21 1	3.55		#	261	EXT

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Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
Hempel Paints Ltd. Primer: HEMPADUR 15570		2	125/23 1	4	8 hrs	30 days	414	BLI (2701)
Tie coat: HEMPASIL NEXUS X-SEAL 27600		1	120/-	4.5	TBC	TBC	405	EXT
HEMPAGUARD X7 89900 Hydrogel c/w Biocides Seek approval. Operational req'ment req'd due to additional H&S risks.		2	100/14 3	7	6 hrs	#	259	EXT
International Paint Ltd. Primer: INTERSHIELD 300		2	125/20 8	4.8	7 hrs	14 days	313	EXT
Tie coat: INTERSLEEK 737		1	100/17 5	6.5	4 hrs	7 days	325	EXT
INTERSLEEK 1100SR Slime Release Fluoropolymer		1	150/20 8	4.8	24 hrs	#	248	EXT
PPG Protective & Marine Coatings. Mid coat: SIGMA SHIELD 610 (7978)		1	150/26 3	3.8	12 hrs	5 days	437	EXT
Tie-coat: SIGMAGLIDE 790 (7386)		1	150/19 0	5.3	12 hrs	5 days	187	EXT
SIGMAGLIDE 1290 Low-speed slime release Silicone		1	180/20 7	4.8	#	#	118	EXT
SELF POLISHING (SPC)								
Chugoku Paints (UK) Ltd. SEA GRANDPRIX 660 HS (Fusion) Can be applied over Sherwin Williams M535		1	150/23 1	4.5	5 hrs	#	324	EXT
Hempel Paints Ltd. OLYMPIC + 72950 Black		2	120/19 0	5.0	8 hrs	#	367	EXT
International Paint Ltd. INTERSPEED 6400 Black		2	90/150	6.7	6 hrs	3 months	358	EXT
PPG Protective & Marine Coatings SIGMA ECOFLEET 530 7385 Black		3	100/16 7	6.6	6 hrs	#	331	EXT

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Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
AREA S3. PRESSURE HULL & EXTERNAL SUPERSTRUCTURE FINISH Untiled areas Hempel Paints Ltd. HEMPADUR 47182 Black International Paint Ltd. INTERGARD 5000 Black Sherwin-Williams Protective & Marine Coatings Sherwin M535 Black Marker Coating Systems Ltd/PPG CORROLESS EPF Black		1 1 1 1	125/20 2 125/15 2 75/- 200/-	6 6.56 5.3 4.8	9 hrs 12 hrs 2 16 hrs	5 days 2 months # 3 days	364 155 502 80	EXT BLI (A5713) EXT BLI (A1773)
AREA S4. PERISCOPE & MASTS Visible portions outside the submarine Sherwin-Williams Protective & Marine Coatings Macropoxy® L425 IRR Matt BS285								
		1 3	35/-	17.1	5 hrs	#	346	W (AA0565g)
AREA S5. SUPERSTRUCTURE CASING General steelwork Hempel Paints Ltd. HEMPADUR 45880 MIO 12430 HEMPADUR 47132 Black International Paint Ltd. INTERGARD 5000 INTERGARD 5000 Black		1 1 1 1	175/21 9 125/- 175/21 3 125/15 2	4.6 6 4.68 6.56	8 hrs 9 hrs 12 hrs 12 hrs	30 days 3.5 days 2 months 2 months	198 364 155 155	EXT EXT BLI (A5713) BLI (A5713)

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Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
<u>Sherwin-Williams Protective & Marine Coatings</u>								
Macropoxy® M922M Mastic Aluminium Sherwin M535 Black		2	200/-	4.2	4 hrs	#	146	EXT
		2	75/-	5.3	2	#	502	EXT
<u>Maker Coating Systems Ltd/PPG</u>								
AMERLOCK 400C Black		2	125/14 7	7	16 hrs	#	106	BLI (A0827)
<u>AREA S6. WALKWAYS ON STEEL CASING Black Chugoku Paints (UK) Ltd</u>								
UMEGUARD HS SILVER		1	125/16 2	7.4	20 hrs	30 days	158	CF, BLI (A1651)
CAMIDECK FINISH TYPE 1		2	190/35 2	2.84	16 hrs	#	374	CF/ BLI (A0953b)
<u>Hempel Paints Ltd.</u>								
HEMPADUR 45880 MIO 12430		1	100/12 5	8.5	7 hrs	6 hrs*	168	EXT
HEMPEL'S NON-SKID 45340 TYPE 1		2	200/31 7	3.2	6 hrs	30 days	347	EXT
<u>International Paint Ltd.</u>								
INTERGARD 5000		1	150/18 3	5.47	12 hrs	4 days	155	BLI (A5713)
<u>Maker Coating Systems Ltd.</u>								
AMERLOCK 400C		1	125/14 7	7	16 hrs	#	106	BLI (A0827)
AMERLOCK 400 NS TYPE 1		2	300/-	4	16 hrs	#	106	EXT
<u>Sherwin-Williams Protective & Marine Coatings</u>								
Macropoxy® C425V2		1	125/-	76.0	5 hrs	#	186	BLI (A3736)
EPIDEK M377 TYPE 1		2	250/40 3	4	4 hrs	#	330	EXT
<u>PPG Protective & Marine Coatings</u>								
AMERCOAT 137		1	125/18 7	3.9	12 hrs	3 days	264	EXT
AMERCOAT 138G		1	1300/1 585	0.6	24 hrs	#	168	EXT

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Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
AREA S7. <u>INTERNAL DRY SPACES</u> White <u>Chugoku Paints (UK) Ltd.</u>								
UMEGUARD HS SILVER <u>Hempel Paints Ltd.</u>		1	125/16 2	7.4	20 hrs	30 days	158	CF, BLI (A1651)
HEMUDUR PRIMER 18500		1	60/120	8.8	6 hrs	1 week	22	
HEMUCRYL ENAMEL 58100 <u>International Paint Ltd</u>		2	30/73	13.7	6 hrs	#	63	BLI (A0823)
INTERGARD 5000		1	125/15 2	6.56	12 hrs	#	155	BLI (A5713)
INTERCRYL 700 <u>Jotun Paints (Europe) Limited</u>		1	35/85	11.42	60 mins	#	50	CI (A3217)
WATERFINE PRIMER		2	100/-	4.6	1.5 hrs	#	100	
WATERFINE TOPCOAT <u>Maker Coating Systems Ltd</u>		2	50/-	7.2	1.5 hrs	#	195	BCI (A1550)
AMERLOCK 400C		1	125/14 7	7	16 hrs	#	106	BLI (A0827)
AQUACOVER 500 (same products as AMERCOAT 300A)		2	50/-	10.4	16 hrs	#	0	BLI (A0801)
<u>PPG Protective & Marine Coatings</u>								
SIGMA AQUACOVER 257150		2	75/-	6.6	4 hrs	#	31	
SIGMA AQUACOVER 457520		2	50/-	6.8	6 hrs	#	17	
<u>Sherwin-Williams Protective & Marine Coatings</u>								
Macropoxy® C425V2		1	125/-	6.0	5 hrs	#	186	BLI (A3736)
Sher-CrylTM M770		2	25/-	15.6	3 hrs	#	78	CI (A3274)

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Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
AREA S8. <u>INTERIOR WET COMPARTMENTS</u> (Complete Represervation) White <u>Chugoku Paints (UK) Ltd.</u>		1	125/16 2	7.4	20 hrs	30 days	158	CF, BLI (A1651)
UMEGUARD HS SILVER		1	125/15 6	6.5	5 hrs	#	198	
Hempel Paints Ltd.		1	80/-	6.9	12 hrs	15 days	27	
International Paint Ltd. INTERGARD 5000 Grey		1	125/15 2	6.56	24 hrs	#	155	BLI (A5713)
INTERGARD 1735		1	50/100	11.2	12 hrs	#	132	BLI (A4417)
Jotun Paints (Europe) Limited.								
WATERFINE PRIMER Grey		1	100/-	4.6	1.5 hrs	#	60	
WATERFINE PRIMER		1 or 2	40/-	11.6	1.5 hrs	#	60	
Maker Coating Systems Ltd								
AMERLOCK 400C		1	125/14 7	7	16 hrs	#	106	BLI (A0827)
AQUACOVER 500 (same products as AMERCOAT 300A)		1	50/-	10.4	16 hrs	#	0	BLI (A0801)
PPG Protective & Marine Coatings								
SIGMACOVER 456 HS (7712)		2	75/103	9.7	8 hrs	#	277	
SIGMASHIELD 420		1	150/18 5	5.6	3.5 hrs	14 days	239	
Sherwin-Williams Protective & Marine Coatings								
Macropoxy® C425V2		1	125/16 7	6.0	5 hrs	#	186	BLI (A3736)
Macropoxy® M630V2		1	75/-	6.8	24 hrs	#	0	BLI (A2973)

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Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
AREA S9. GROUP EXHAUST VALVES <u>Sherwin-Williams Protective & Marine Coatings</u>								
Zinc-Clad II EU (previously Dox Anode D5V2)		1	75/-	8.7	24 hrs	#	470	W (A1984)
AREA S10. DSRV SEATING <u>Sherwin-Williams Protective & Marine Coatings</u>								
Macropoxy® C425V2		1	175/23 3	4.3	8 hrs	#	186	BLI (A3736)
EPIDEK L716		2	75/-	6.8	4 hrs	#	420	BLI (A1010)
AREA S11. INTERIOR PRESSURE HULL SURFACE Emergency Cooling Tanks (NP approval req'd)) a) S Class Soft and Saddle Tanks <u>Hempel Paints Ltd.</u> GALVOSIL 15700 – Approved by Rolls Royce								
<u>International Paint Ltd.</u> Primer TBA b) Trafalgar Class Hard Tank <u>International Paint Ltd.</u> Primer TBA <u>Sherwin-Williams Protective & Marine Coatings.</u> Epoxy coating TBA		1	75/-	8.53	36 hrs	#	434	BLI (A1982)

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Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
<u>PPG Protective & Marine Coatings.</u>								
SIGMA PHENGUARD 930 Primer -Approved by Rolls Royce		1	100/-	6.6	36 hrs	21 days	300	
SIGMA PHENGUARD 935 Coating -Approved by Rolls Royce		1	100/-	6.6	24 hrs	21 days	300	
SIGMA PHENGUARD 940 Finish -Approved by Rolls Royce		1	100/-	6.6	24 hrs	21 days	300	
SIGMAGUARD 795 (Maintenance)		2	150/-	5.0	10 hrs	21 days	273	
<u>Marker Coating Systems Ltd.</u>								
CORROLESS EPF – Approved by Rolls Royce		1	200/-	4.8	16 hrs	3 days	80	BLI (A1773)
CORROLESS RF35 – Approved by Rolls Royce		1	200/-	4.8	16 hrs	3 days	93	(BLI (A1772)
c) Trafalgar Class Jacket Tank								
International Paint Ltd.								
INTERGARD 5000 - Approved by Rolls Royce		2	125/15 2	6.56	12 hrs	3 months	155	BLI (A5713)
<u>Marker Coating Systems Ltd.</u>								
CORROLESS EPF – Approved by Rolls Royce		1	200/-	4.8	16 hrs	3 days	80	BLI (A1773)
CORROLESS RF35 – Approved by Rolls Royce		1	200/-	4.8	16 hrs	3 days	93	BLI (A1772)
AMERLOCK 400C – Approved by Rolls Royce		2	125/14 7	7	16 hrs	3 days	106	BLI (A0827)
<u>Sherwin-Williams Protective & Marine Coatings.</u>								
Macropoxy® M922		2	200/-	4.2	4 hrs	#	143	BLI (A1471)
Epoxy coating TBA								

ANNEX C

Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
<u>INTERIOR SURFACES</u>								
d) <u>Vanguard Class High Pressure Decay Heat Removal Tank (HPDR)</u> <u>International Paint Ltd.</u>								
Primer TBA								
<u>Sherwin-Williams Protective & Marine Coatings</u>								
Epoxy coating TBA								
<u>Marker Coating Systems Ltd</u>								
Primer TBA								
Tank lining TBA								
Epoxy coating TBA								
<u>PPG Protective & Marine Coatings.</u>								
SIGMA PHENGUARD 930 Primer – Approved by Rolls Royce		1	100/-	6.6	36 hrs	21 days	315	
SIGMA PHENGUARD 935 Coating – Approved by Rolls Royce		1	100/-	6.6	24 hrs	21 days	315	
SIGMA PHENGUARD 940 Finish – Approved by Rolls Royce		1	100/-	6.6	24 hrs	21 days	315	
SIGMAGUARD 795 (Maintenance)		2	1150/-	5.0	10 hrs	21 days	273	
<u>EXTERNAL SURFACES</u>								
<u>International Paint Ltd.</u>								
Primer TBA								
<u>Sherwin-Williams Protective & Marine Coatings.</u>								
Epoxy coating TBA								

ANNEX C

Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
<u>Marker Coating Systems Ltd.</u>								
CORROLESS EPF		1	200/-	4.8	16 hrs	3 days	80	BLI (A1773)
CORROLESS RF35		1	200/-	4.8	16 hrs	3 days	93	BLI (A1772)
AMERLOCK 400C		2	125/147	7	16 hrs	3 days	106	BLI (A0827)
<u>PPG Protective & Marine Coatings.</u>								
SIGMA PHENGUARD 930 Primer - Approved by Rolls Royce		1	100/-	6.6	36 hrs	21 days	315	
SIGMA PHENGUARD 935 Coating - Approved by Rolls Royce		1	100/-	6.6	24 hrs	21 days	315	
SIGMA PHENGUARD 940 Finish - Approved by Rolls Royce		1	100/-	6.6	24 hrs	21 days	315	
SIGMAGUARD 795 (Maintenance)		2	150/-	5.0	10 hrs	21 days	273	
e) Astute Class								
<u>Advanced Polymer Coatings</u>								
SILOXIRANE 2031LE – Approved by Rolls Royce		2	150/-	1.72	24 hrs	3 days	102	W (A1941)
<u>PPG Protective & Marine Coatings</u>								
SIGMA PHENGUARD 930 Primer - Approved by Rolls Royce		1	100/-	6.6	36 hrs	21 days	315	
SIGMA PHENGUARD 935 Coating - Approved by Rolls Royce		1	100/-	6.6	24 hrs	21 days	315	
SIGMA PHENGUARD 940 Finish - Approved by Rolls Royce		1	100/-	6.6	24 hrs	21 days	315	

ANNEX C

Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
AREA S12. REACTOR COMPARTMENT White a) <u>Interior surfaces</u> <u>Maker Coating Systems Ltd/PPG.</u> AMERLOCK 400C AQUACOVER 500 (same products as AMERCOAT 300A)		1	125/14 7	7	16 hrs	#	106	BLI (A0827)
		2	50/-	10.4	16 hrs	#	0	BLI (A0801)
<u>Firwood Paints Ltd</u> FIRGLO 64 <u>International Paint Ltd.</u>		1-2	25/-	15	4 hrs	#	620	CI (A3171)
INTERTHERM 50		1-2	25/-	18	12 hrs	#	495	BLI (A3501)
b) <u>External surfaces</u> Refer to S1. NOTE: - DFT not to exceed that stated in BR 3939 Section 12.								
S13. INTERIOR DECKS <u>Sherwin-Williams Protective & Marine Coatings.</u> Macropoxy® C425V2 Macropoxy® M630V2 <u>International Paint Ltd.</u> INTERGARD 5000		1	175/23 3	4.3	8 hrs	#	186	BLI (A3736)
		1	75/-	6.8	24 hrs	#	0	BLI (A2973)
INTERGARD 1735 <u>Maker Coating Systems Ltd/PPG.</u> AMERLOCK 400C		1	50/100	11.2	12 hrs	#	132	BLI (A4417)
		2	125/14 7	7	16 hrs	#	106	BLI (A0827)

ANNEX C

Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
S14. <u>BATTERY COMPARTMENTS</u> BS4800 00A01 <u>Chugoku Paints (UK) Ltd.</u> UMEGUARD HS SILVER <u>Hempel Paints Ltd.</u>		1	125/16 2	7.12	20 hrs	7 days	108	CF, BLI (A1651)
HEMPADUR 45880 MIO 12430		1	150/18 8	5.5	5 hrs	#	198	
HEMPADUR FC 48582		1	80/-	6.9	12 hrs	15 days	27	
<u>International Paint Ltd.</u> INTERGARD 5000 <u>Jotun Paints (Europe) Limited.</u>		1	125/15 2	6.56	12 hrs	#	155	BLI (A5713)
POLYMASTIC 2000		1	200/-	4.8	9 hrs	#	80	TBC (A2417)
POLYMASTIC 2000		1	200/-	4.8	9 hrs	#	80	TBC (A2417)
<u>Maker Coating Systems Ltd/PPG</u> AMERLOCK 400C		1	125/14 7	7	16 hrs	#	106	BLI (A0827)
AQUACOVER 500 (same products as AMERCOAT 300A) <u>Sherwin-Williams Protective & Marine Coatings</u>		1	50/-	10.4	16 hrs	#	0	BLI (A0801)
Macropoxy® C425V2		1	100/13 3	7.5	4 hrs	#	186	BLI (A3736)
Macropoxy® M630V2		1	75/-	6.8	24 hrs	#	0	BLI (A2973)
AREA S15. <u>MACHINERY SPACE BILGES & MOUNTED MACHINERY RAFTS</u> <u>Chugoku Paints (UK) Ltd.</u> UMEGUARD HS SILVER UMEGUARD HS GREY		1	125/10 0	6.5	15 hrs	10 days	108	CF, BLI (A1651)
		1	125/-	6.5	15 hrs	10 days	158	CF, BLI (A1650)

ANNEX C

Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
<u>Finish for Mounted Machinery Rafts</u> Hempel Paints Ltd.								
HEMPADUR 45880 White		1	150/18 8	5.5	5 hrs	#	220	
<u>Finish for Mounted Machinery Rafts</u>								
HEMUCRYL ENAMEL 58100 Canary BS381C 309 International Paint Ltd.		1	30/73	13.7	6 hrs	#	70	BLI (A0823)
INTERGARD 5000		1	175/21 3	4.68	12 hrs	3 months	155	BLI (A5713)
<u>Finish for Mounted Machinery Rafts</u>								
INTERCRYL 700 Yellow RAL 1018		1	35/85	11.42	6 hrs	#	50	CI (A3217)
Jotun Paints (Europe) Limited.								
JOTACOTE UNIVERSAL JOTAPROOF TOPCOAT		1	125/17 4	5.8	4 hrs	#	240	
		1	60/83	10.5	4 hrs	#	310	
<u>Finish for Mounted Machinery Rafts</u>								
WATERFINE TOPCOAT Canary BS381C 309 Maker Coating Systems Ltd		1	40/-	9.2	8 hrs	#	105	BLI (A1550)
CORROLESS EPF		1	200/-	4.8	16 hrs	3 days	80	BLI (A1773)
<u>Finish for Mounted Machinery Rafts</u>								
AMERLOCK 400C		1	125/14 7	7	16 hrs	#	106	BLI (A0827)
PPG Protective & Marine Coatings								
SIGMA NOVAGUARD 840 7468		1	400/-	2.5	24 hrs	2 months	13	
<u>Finish for Mounted Machinery Rafts</u>								
SIGMA AQUACOVER 45 7250 Canary BS381C 309		1	50/-	6.8	6 hrs	#	17	

ANNEX C

Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
<u>Sherwin-Williams Protective & Marine Coatings</u>								
Macropoxy® M902		1	125/-	6.0	6.5	#	219	BLI (A1781)
Macropoxy® L524		1	125/20 8	5.1	12 hrs	#	296	BLI (A0661)
<u>Finish for Mounted Machinery Rafts</u>								
Sher-CryITM M770 Canary BS381C 309		1	25/-	15.6	3 hrs	#	78	BLI (A3274)
AREA S16. <u>BULK FUEL & OIL, LUBE OIL,</u> <u>HYDRAULIC & LP AIR TANKS - DEF STAN 80-97 (HIGH SOLIDS)</u> <u>Chugoku Paints (UK) Ltd.</u>								
CLEANKEEP 5000		1	300/30 0	3.33	48 hrs	14 days	0	W (A5451)
<u>Hempel Paints Ltd.</u>								
HEMPADUR 85671		3	100/14 7	6.8	36 hrs	5 days	320	
<u>International Paint Ltd.</u>								
INTERLINE 850		2	125/16 4	6.08	8 hrs	30 days	212	LI (2052)
<u>Jotun Paints (Europe) Limited.</u>								
TANKGUARD STORAGE		2	125/19 8	5.0	10 hrs	30 days	261	
<u>Maker Coating Systems Ltd.</u>								
CORROLESS EPF		1	200/-	4.8	16 hrs	3 days	80	BLI (A1773)
CORROLESS RF35 Off White		1	200/-	4.8	16 hrs	3 days	93	BLI (A1772)
<u>PPG Protective & Marine Coatings.</u>								
SIGMAGUARD CSF 650 (7443)		1	300/30 0	3.3	24 hrs	20 days	17	
<u>Sherwin-Williams Protective & Marine Coatings</u>								
Macropoxy® M922		2	200/-	5.4	4 hrs	14 days	143	BLI (A1471)

ANNEX C

Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
S17. POTABLE WATER TANKS Chugoku Paints (UK) Ltd. CLEANKEEP 5000 Hempel Paints Ltd.		1	300/300	3.33	48 hrs	7 days	0	W (A5451)
HEMPADUR MULTI STRENGTH 35560 International Paint Ltd.		2	200/-	5	24 hrs	5 days	0	
INTERLINE 925 Jotun Paints (Europe) Limited. TANKGUARD DW Marker Coating Systems Ltd. CORROLESS EPF CORROLESS RF35 PPG Protective & Marine Coatings. SIGMAGUARD CSF 650 7443 Sherwin-Williams Protective & Marine Coatings.		1	300/300	3.35	48 hrs	3 days	1	CF, BLI (A2236)
		2	150/150	6.7	12 hrs	5 days	2	BLI (A4764)
		1	200/-	4.8	16 hrs	3 days	80	BLI (A1773)
		1	200/-	4.8	16 hrs	3 days	93	BLI (A1772)
Macropoxy® P300		1	500/-	2.0	6 hrs	36 hrs	0	
AREA S18. SLOP DRAIN TANKS (alternatives being sought) Sherwin-Williams Protective & Marine Coatings. Epoxy coating TBA								
AREA S19. AFFF TANKS (supplied with Demin Water?) Chugoku Paints (UK) Ltd. CLEANKEEP 5000		1	300/300	3.33	48 hrs	14 days	0	W (A5451)

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Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
Hempel Paints Ltd								
HEMPADUR MULTI STRENGTH 35560		2	250/-	3.33	24 hrs	5 days	0	
International Paint Ltd								
INTERLINE 704		2	125/23 6	5.0	23 hrs	21 days	385	
Jotun Paints (Europe) Limited.								
TANKGUARD DW		2	150/15 0	4.24	12 hrs	5 days	2	BLI (A4764)
Maker Coating Systems Ltd.								
CORROLESS EPF		1	200/-	4.8	16 hrs	3 days	80	BLI (A1773)
CORROLESS RF35		1	200/-	4.8	16 hrs	3 days	93	BLI (A1772)
PPG Protective & Marine Coatings.								
SIGMAGUARD CSF 585 (7785)		1	300/30 0	3.33	24 hrs	20 days	5	
Sherwin-Williams Protective & Marine Coatings.								
Epoxy coating TBA								
AREA S20. DEMINERALISED WATER TANKS (Max Temperature 90°C) (Inc. Hotwells, Surge, Reserve Feed, Made Water, Reactor Water Storage Tanks) Consult 'DES SM PG- NavArch3b' for latest approved coatings.								
Chugoku Paints (UK) Ltd.								
CLEANKEEP 5000 – RR approved – Check with ISM before use.		1	300/30 0	3.33	48 hrs	14 days	0	W (A5451)
Hempel Paints Ltd.								
TBA								
International Paint Ltd.								

ANNEX C

Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
TBA <u>Jotun Paints (Europe) Limited.</u>								
TBA <u>Marker Coating Systems Ltd Limited to 60°C</u> CORROLESS EPF – Approved by Rolls Royce CORROLESS RF35 – Approved by Rolls Royce		1 1	200/- 200/-	4.8 4.8	16 hrs 16 hrs	3 days 3 days	80 93	BLI (A1773) BLI (A1772)
<u>PPG Protective & 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	
SIGMA PHENGUARD 935 Coating – Approved by Rolls Royce SIGMA PHENGUARD 940 Finish – Approved by Rolls Royce		1 1	100/- 100/-	6.6 6.6	24 hrs 24 hrs	21 days 21 days	315 315	
<u>Sherwin-Williams Protective & Marine Coatings</u>								
TBA								
AREA S21. <u>HOLDING PRIMER</u> (blasted steel work) <u>Chugoku Paints (UK) Ltd.</u>								
NZ PRIMER S		1	25/83	15.9	16 hrs	#	641	
<u>Hempel Paints Ltd.</u>		1	40/74	13.5	#	#	414	BLI (A2701)
HEMPADUR 15570 (damp surface tolerant) <u>International Paint Ltd.</u>		1	30/85	15.67	6 hrs	#	411	BLI (A5954)
INTERGARD 269 <u>Jotun Paints (Europe) Limited.</u>								

ANNEX C

Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
MUKI EPS		1	20/80	12.5	7 hrs	7 days	610	BLI (A4527)
<u>PPG Protective & Marine Coatings.</u>								
SIGMACOVER 280 (7417)		1	50/88	11.4	8 hrs	3 months	432	
<u>Sherwin-Williams Protective & Marine Coatings.</u>								
Macropoxy® L574 Or		1	25/42	11.6	3 hrs	#	594	BLI (A0565f)
Macropoxy® M111 (damp surface tolerant)		1	60/0	9.0	4 hrs	#	383	W (A0662)
<u>AREA S22. PRIMERS FOR NON-FERROUS METALS Chuqoku Paints (UK) Ltd.</u>								
Aluminium: ALP 500		1	50/86	11.6	10 hrs	#	414	W (A1923)
Stainless Steel: UMEGUARD HS		1	125/16 2	7.4	20 hrs	30 days	158	CF, BLI (A1650)
Zinc Spray & Galvanise: GALVANITE 200		1	30/64	14.1	4 hrs	30 days	587	W (A1922)
<u>Hempel Paints Ltd.</u>								
<u>Aluminium, Stainless Steel, Zinc Spray & Galvanise:</u>								
HEMUCRYL TIE COAT 18200 (1 pack) Or		1	20/-	19.0	24 hrs	30 mins	40	BLI (A1779)
HEMPADUR 15553 (2 pack)		1	50/91	8.6	2 hrs	#	515	
Indicator coat for FRP: HIGH PROTECT Cream		1	200/20 0	5.0	8 hrs	5 days	10	
<u>International Paint Ltd.</u>								
<u>Aluminium, Stainless steel, Zinc Spray & Galvanise:</u>								
INTERGARD 269		1	30/64	15.67	6 hrs	#	411	BLI (A5954)

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Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
Or								
INTERGARD 276		1	30/64	15.67	6 hrs	#	411	
Indicator Coat for FRP: INTERLINE 925 Cream		1	300/300	5	18 hrs	3 days	1	CF, BLI (A2236)
Jotun Paints (Europe) Limited.								
Aluminium, Stainless Steel, Zinc Spray & Galvanise:								
WATERFINE PRIMER FRP Indicator Coat: PENGUARD HB White		1	60/-	7.6	1.5 hrs	#	100	
Maker Coating Systems Ltd / PPG.		2	150/-	3.6	8 hrs	#	390	
Aluminium & Zinc Spray: AMERLOCK 400C		1	125/-	7	16 hrs	#	106	BLI (A0827)
Stainless Steel & Galvanise: SIGMACOVER 280 (7417)		1	50/-	11.4	8 hrs	6 months	432	
Indicator Coat for FRP: AMERLOCK 400C Green RAL 6011		2	125/147	7	16 hrs	#	106	BLI (A0827)
Sherwin-Williams Protective & Marine Coatings.								
Aluminium, Stainless Steel & Galvanise:								
Macropoxy® L425		1	35/58	17.1	5 hrs	#	346	W (A0565g)
Zinc Spray: Macropoxy® L574		1	25/-	11.6	4 hrs	#	594	BLI (A2026)
Indicator Coat for FRP: Macropoxy® C425V2 Off White		2	150/-	5	4 hrs	#	186	BLI (A3736)
AREA S23. HIGH EROSION AREAS								
Hempel Paints Ltd.								
HEMPADUR MULTISTRENGTH GF35870		1	300/-	2.9	16 hrs	30 days	180	BLI (A2816)
International Paint Ltd.								
INTERZONE 505		1	300/-	3.0	6 hrs	4 days	157	
Maker Coating Systems Ltd.								

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Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
CORROLESS EPF <u>Sherwin-Williams Protective & Marine Coatings</u>		2	200/-	4.8	16 hrs	3 days	80	BLI (A1773)
Macropoxy® M922		1	400/-	4.2	#	#	143	BLI (A1471)
AREA S24. BENEATH TILING Wessex Resins: UW46 Primer UW 46 Adhesive								
AREA S25. SYSTEM FOR COATING NATURAL RUBBER MOUNTS (applied by mount supplier not to be touched up once fitted) Marker Coating Systems Ltd. GUMMIPAIN - ORANGE		2	35/-					BLI (A3672)
AREA S26. INTERNAL NUTS & BOLTS AND TO FILL GAPS BETWEEN CANNING PLATES & LEAD SHIELDING Marker Coating Systems Ltd. CORROLESS CCI 355 CORROSION INHIBITOR (HD GREASE)		1	N/A			N/A	N/A	G (A2738)
AREA S27. SEA WATER TANKS Chugoku Paints (UK) Ltd IMO PSPC UMEGUARD HS Or		2	160/20 8	5.08	15 hrs	10 days	108	CF, BLI (A1650)
BANNOH 1500		2	160/21 9	4.56	19 hrs	30 days	286	
Hempel Paints Ltd IMO PSPC								
HEMPADUR QUATTRO		2	160/22 2	4.5	6 hrs	90 days	275	

ANNEX C

Proposed Systems/Materials	WAR number	No. of Coats	NDFT / NWFT per coat Micron s	Theo SR m ² /l	Min@ 20°C Recoat Interval	Max@ 20°C Recoat Interval	VOC gms per litre	BR 1326
<u>International Paint Ltd</u> IMO PSPC INTERGARD 5000		2	160/19 5	5.13	12 hrs	3 months	155	BLI (A5713)
<u>Jotun Paints (Europe) Ltd</u> IMO PSPC BALLOXY HB LIGHT		2	160/19 5	5.16	10 hrs	#	150	BLI (A1156)
<u>Maker Coating Systems Ltd</u> CORROLESS EPF		2	200/-	4.8	16 hrs	3 days	80	BLI (A1773)
<u>Maker Coating Systems Ltd/ PPG</u> IMO PSPC SIGMACOVER 240 (7991)		2	160/23 0	5.4	5 hrs	30 days	153	
<u>Sherwin-Williams Protective & Marine Coatings.</u> Macropoxy® L524 (typical dft 125. care req'd on overlap at 160)		2	160/25 0	3.9	12 hrs	#	296	BLI (A0661)
<u>AREA S28. LILO / PAYLOAD BAY CHAMBER (Internal)</u> Consult 'SDA-P-ENG-SP1 for latest approved coatings.								

Colours in red – colour code to be identified

ANNEX D

ANNEX D: WHOLE SHIP SPECIFICATION STOCK NUMBERS (NSNs)

Material	Supplier	Pack Size	NSN
REMOVAL 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
HEMPEL'S NON-SKID 45710 BLACK 19990	Hempel Paints Limited	20kg	8010-99-507-2851
HEMPEL'S DECK MARKING 453GB Black	Hempel Paints Limited	20 litres	8010-99-480-7979
HEMPEL'S ANTIFOULING OLYMPIC 8695 Black	Hempel Paints Limited	20 litres	8010-99-147-9828
HEMPEL'S UNDERCOAT 42460 White	Hempel Paints Limited	2.5 litres	8010-99-244-6752
HEMPEL'S DECK MARKING 453GB White	Hempel Paints Limited	5 litres	8010-99-323-1118
HEMPEL'S DECK MARKING 453GB Green BS381C 225	Hempel Paints Limited	5 litres	8010-99-986-6762
HEMPEL'S DECK MARKING 453GB Red BS381C 537	Hempel Paints Limited	5 litres	8010-99-724-9085
HEMPEL'S DECK MARKING 453GB Black	Hempel Paints Limited	5 litres	8010-99-351-4222
HEMPEL'S NON-SKID 45340 Grey BS3813 632 Type 1	Hempel Paints Limited	20 litres	8010-99-670-9581
HEMPEL'S 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	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

ANNEX D

Material	Supplier	Pack Size	NSN
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
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 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 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

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Material	Supplier	Pack Size	NSN
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 BS 4800 00A01	International Coatings Ltd	5 litres	8010-99-000-5256
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 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

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Material	Supplier	Pack Size	NSN
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
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 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

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Material	Supplier	Pack Size	NSN
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
SIGMA SHIELD 420 7951 Ash Grey BS4800 00A01	Maker Coating Systems Ltd	5 litres	8010-99-549-3974
SIGMA SHIELD 420 7951 Light Weatherwork Grey BS381C 676	Maker Coating Systems Ltd	5 litres	8010-99-723-3658
SIGMA SHIELD 220 7922 Light Green	Maker Coating Systems Ltd	5 litres	8010-99-403-5015
SIGMA SHIELD 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
Macropoxy® M630V2 Green BS4800 14C39	Sherwin-Williams Protective & Marine Coatings	5 litres	8010-99-255-5237
Macropoxy® M630V2 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 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	2 litres	8010-99-383-4334

ANNEX D

Material	Supplier	Pack Size	NSN
	& Marine Coatings		
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
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

Colours in red – colour code to be identified

ANNEX E

ANNEX E: SUBMARINE STOCK NUMBERS (NSNs)

Material	Supplier	VOC Compliant	NSN	BR 1326
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)

ANNEX E

Material	Supplier	VOC Compliant	NSN	BR 1326
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)
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	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)

ANNEX E

Material	Supplier	VOC Compliant	NSN	BR 1326
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)
WATERFINE TOPCOAT Mid Brunswick Green BS381C 226	Jotun Paints (Europe) Limited	197 g/l	8010-99-873-4271	BCI (A1550)
WATERFINE TOPCOAT 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)

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Material	Supplier	VOC Compliant	NSN	BR 1326
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)
Sher-Cryl™ M770 Azure Blue BS381C 104	Sherwin-Williams Protective & Marine Coatings	128 g/l	8010-99-878-8150	CI (A3274)
Sher-Cryl™ M770 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	

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Material	Supplier	VOC Compliant	NSN	BR 1326
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	

Colours in red – colour code to be identified

ANNEX F**ANNEX F: WARSHIP SUPPORT SHIPS PAINT TABLE**

Ship Name	Ship Type	Below Water	Topsides	Weather decks	Tanks	Internals
HMS QNLZ	Aircraft carrier	Hempel	Hempel	Hempel	International	Sherwin Williams
HMS PWLS	Aircraft carrier	Hempel	Hempel	Hempel	International	Sherwin Williams
HMS Daring	Type 45	International	International	International	International	International
HMS Dauntless	Type 45	International	International	International	International	International
HMS Diamond	Type 45	International	International	International	International	International
HMS Dragon	Type 45	International	International	International	International	International
HMS Defender	Type 45	International	International	International	International	International
HMS Duncan	Type 45	International	International	International	International	International
HMS Albion	Albion Class	International	Sherwin Williams	Sherwin Williams	Sherwin Williams	Sherwin Williams
HMS Bulwark	Albion Class	Hempel	Sherwin Williams	Sherwin Williams	Sherwin Williams	Sherwin Williams
HMS Tyne	River Class	Hempel	Hempel	Hempel	Hempel	Hempel
HMS Mersey	River Class	Hempel	Hempel	Hempel	Hempel	Hempel
HMS Clyde	River Class	Hempel	Hempel	Hempel	Hempel	Hempel
HMS Forth	River Class	Hempel	Hempel	Hempel	Hempel	Hempel
HMS Medway	River Class	Hempel	Hempel	Hempel	Hempel	Hempel
HMS Brocklesby	Hunt Class	Hempel	Sherwin Williams	Sherwin Williams	Sherwin Williams	Sherwin Williams
HMS Middleton	Hunt Class	Hempel	Hempel	Sherwin Williams	Jotun	Sherwin Williams
HMS Chiddingfold	Hunt Class	Hempel	Hempel	Sherwin Williams	International	Sherwin Williams

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HMS Hurworth	Hunt Class	International	Sherwin Williams	Sherwin Williams	Sherwin Williams	Sherwin Williams
HMS Penzance	Sandown Class	Hempel	International	International	International	International
HMS Pembroke	Sandown Class	International	International	International	Jotun	International
HMS Grimsby	Sandown Class	Hempel	International	International	International	International
HMS Bangor	Sandown Class	Hempel	International	International	International	International
HMS Ramsey	Sandown Class	International	International	International	International	International
HMS Blyth	Sandown Class	Hempel	International	International	International	International
HMS Shoreham	Sandown Class	International	International	International	International	International

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