Certificate No: LR2003106PWBT
Issue Date: 01/05/2020
Expiry Date: 30/04/2025

Protective coatings for water ballast tanks & double side skin spaces

Manufacturer	**Hempel (Portugal) Lda.**
Address	Vale de Cantadores, Palmela, 2954-002, Portugal
Product	Hempadur Quattro XO 17870
Product Code(s)	17879
Curing agent	95870
Application	Water ballast tanks and double-side skin spaces
Notes	1. Surface preparation and coating application should be carried out in accordance with the manufacturer's PTDS. 2. Product approved for use with the compatible shop primers listed on page 2, or on clean blasted bare steel.

This is to certify that the protective coating system manufactured at the plant above is in compliance with IMO Resolution MSC.215(82) Performance Standard for Protective Coatings for Dedicated Seawater Ballast Tanks in all Types of Ships and Double-side Skin Spaces of Bulk Carriers (PSPC) adopted on 8th December 2006.

This approval is granted in accordance with the PSPC, IACS Regulations and Lloyd's Register Rules. The surface preparation and application requirements specified in the product technical data sheet (PTDS) have been reviewed and comply with the PSPC. This Approval does not cover properties other than corrosion prevention, such as service life, safety or toxicity etc.

The approval is subject to Lloyd's Register being informed of any changes in the product's formulation, specification or status of manufacturing quality control accreditation. Periodic auditing of the manufacturer's quality control and assurance systems will confirm compliance. Lloyd's Register reserves the right to withdraw or re-issue this certificate.

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Compatible Shop Primers

Primer	Product Code(s)	Manufacturer
Hempel's Shopprimer ZS 15820	15820	Hempel A/S
Hempel's Shopprimer ZS 15890	15890	Hempel A/S
Cerabond 2000	M2-10000A	Chugoku Marine Paints Ltd.
Interplate 937	N/A	International Paint Ltd.
Muki Z 2001	N/A	Jotun A/S
Galvany Shopprimer IZ 182(J)	N/A	KCC Corporation
SIGMAWELD 165	179169	PPG Protective & Marine Coatings
SIGMAWELD 190	179171, 179172	PPG Protective & Marine Coatings
SIGMAWELD 199	179165, 179167	PPG Protective & Marine Coatings
KCI Zinc 1000	N/A	Kangnam Jevisco Co., Ltd.

End of list

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