Certificate No: LR2001256PWBT
Issue Date: 01/03/20
Expiry Date: 28/02/25

Protective coatings for water ballast tanks & double side skin spaces

Manufacturer	**Hempel (Kunshan) Coatings Ltd.**
Address	No.1 Haihong Road, Zhangpu, Kunshan 215321, Jiangsu Province, China
Product	Hempadur Quattro XO 17720
Product Code(s)	17729
Curing agent	95072
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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Stuart Downie

Team Leader - Non-Metallics to Lloyd's Register EMEA
A member of the Lloyd's Register Group

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Compatible Shop Primers:

Primer	Product Code(s)	Manufacturer
Hempel's Shopprimer ZS 15890	15890	Hempel A/S
Hempel's Shopprimer ZS 15820	15820	Hempel A/S
CD-SG906	N/A	Ningbo Haidun Coating Co., Ltd.
TH-2 Zinc Silicate Shop Primer	N/A	Jiangsu Yejian Anti-corrosion Co., Ltd.
WS-01 Inorganic Zinc SilicateShop Primer	N/A	Jingjiang Hengyu Chemical Machinery Co., Ltd.
SD Zinc Primer 1000 HA(S)	N/A	COSCO Kansai Paint & Chemicals (Tianjin) Co., Ltd.
725-E47 Inorganic Zinc Silicate Shop Primer	N/A	Xiamen Sunrui Ship Coating Co., Ltd.

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