Certificate No: LR2001661PWBT
Issue Date: 01/04/2020
Expiry Date: 31/03/2025

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 17634
Product Code(s)	17636
Curing agent	97334
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.

Downloaded Copy

71 Fenchurch Street, London, EC3M 4BS, UK

Stuart Downie

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

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Certificate No: LR2001661PWBT
Issue Date: 01/04/2020
Expiry Date: 31/03/2025

Protective coatings for water ballast tanks & double side skin spaces

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
Interplate 937	N/A	International Paint Ltd.
Interplate 997	N/A	International Paint Ltd.
SIGMAWELD 165	179169	PPG Protective & Marine Coatings
SIGMAWELD 190	179171; 179172	PPG Protective & Marine Coatings
SIGMAWELD 199	179165; 179167	PPG Protective & Marine Coatings
Muki Z 2001	N/A	Jotun A/S
Muki Z 2008	N/A	Jotun A/S
Galvany Shopprimer IZ182(J)	N/A	KCC Corporation
KCI Zinc 1000	N/A	Kangnam Jevisco Co., Ltd.
Rainbow Cathozinc SP-09	N/A	Yung Chi Paint & Varnish Mfg. Co., Ltd.
CD–SG 906	N/A	Ningbo Haidun Coating Co., Ltd.
TH-2 Zinc Silicate Shop Primer	N/A	Jiangsu Yejian Anti-corrosion Co., Ltd.
DWin ZINC PRS	N/A	Tianjin Dowill Paint & Chemicals Co., Ltd.
SD Zinc Primer 1000 HA(S)	N/A	COSCO Kansai Paint & Chemicals (Tianjin) Co., Ltd.
F-6001	N/A	Jiangxisheng Jingcheng Industrial Co., Ltd.
Cerabond 2000	N/A	Chugoku Marine Paints, Ltd.
WS-01 Inorganic Zinc Silicate Shop Primer	N/A	Jingjiang Hengyu Chemical Machinery Co., Ltd.
E06-2 Inorganic Zinc Silicate Shop Primer	N/A	Jiangsu Lanling Polymer Material Co., Ltd.

Downloaded Copy

71 Fenchurch Street, London, EC3M 4BS, UK

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.