



Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 07-SEP-2021. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Product Name: Flooring
Model Name(s): Dex-O-Tex Quik-Set Underlayment

Presented to:
CROSSFIELD PRODUCTS CORP.
3000 E. HARCOURT STREET
CA 90221
United States

| | |
|------------------------------|---|
| Intended Service: | Marine & Offshore Application - Primary Deck Covering for Ships and Offshore Facilities. |
| Description: | Lightweight underlayment primary deck covering consisting of a polymer modified cement used in thin gauge applications by troweling for leveling and fairing welds on metal decking. |
| Tier: | 3 |
| Ratings: | Material is not readily Ignitable up to a maximum thickness of 6.4mm in accordance with IMO Res. A.687(17) per test protocol A.653(16). Material is not capable of producing excessive quantities of smoke or toxic products per IMO Res. MSC.61(67) Annex 2-2.2 |
| Service Restrictions: | Unit Certification is not required for this product. If the manufacturer or purchaser's request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. The average thickness of the application shall not exceed 6.4 mm (1/4"), from a Fire Protection Stand Point. |
| Comments: | Duplicate PDA resides with Crossfield Products Corp. - Roselle Park. NJ The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. Approval not performed on behalf of any flag administration. The scope of Type Approval is to comply with MSC.1/Circ.1221 |

dated 11 December 2006. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as per tested/approved prototype. Product should be installed/used in accordance with manufacturer's instructions.

Notes / Documentation:

SWRI Final Report No. 01.04917.01.612, Fire Performance Evaluation in accordance with IMO Resolution A.687(17), dated August 2002 Drawing Quik-Set Underlayment Manufacturer's Data Sheet

Term of Validity:

This Product Design Assessment (PDA) Certificate 16-HS1556249-PDA-DUP, dated 08/Sep/2016 remains valid until 07/Sep/2021 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

ABS Rules:

ABS Rules for Conditions of Classification, Part 1 (2016 Steel Vessels Rules) 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: 2016 ABS Steel Vessel Rules 3-4-1 ABS Rules for Conditions of Classification, Part 1 – 2016 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following: 2016 ABS Mobile Offshore Drilling Units Rules 5-1-1/5.21

National Standards:**International Standards:**

IMO Resolution A.687(17) (adopted on 6 November 1991)

Government Authority:

US Coast Guard Approval Number: 164.106/16/0 Expires: 30 January 2018, Issued 30 January 2008. Transport Canada TP 14612E (3rd Edition, May 2011, Chapter 2)

EUMED:**Others:****Model Certificate****Model Certificate No****Issue Date****Expiry Date**

PDA-DUP

16-HS1556249-PDA-DUP

08-SEP-2016

07-SEP-2021



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.