



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-MAR-2023. 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: Deck Underlayment
Model Name(s): Dex-O-Tex VLW IMO Underlayment

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

Intended Service:	Marine & Offshore Applications - Primary Deck Covering for Ships and Offshore Facilities.
Description:	VLW IMO Lightweight Epoxy Underlayment Primary Deck Covering is a 100% solids epoxy resin base mixed with a very lightweight aggregate to form a trowel applied decking underlayment for general use under deck covering materials.
Tier:	3
Ratings:	- Material is not readily ignitable and meets low flame spread requirements for primary deck coverings as specified in 2010 IMO FTP Code - Resolution MSC.307(88), 2012 Edition (entered into force 1 July 2012) Annex 1, Part 5. - Material is not capable of producing excessive quantities of smoke or toxic products as specified in 2010 IMO FTP Code - Resolution MSC.307(88), 2012 Edition (entered into force 1 July 2012) Annex 1, Part 2.
Service Restrictions:	- Unit Certification is not required for this product. If the manufacturer or purchaser 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 thickness of the application shall not exceed 102mm (4 in) for use as a primary deck covering from a flammability and smoke generation stand point. - The scope of the Type Approval is to comply with MSC.1/Circ. 1221 dated 11 December 2006.

Comments:	Duplicated PDA resides with Crossfield Products Corp. - ROSELLE PARK. - 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. - 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 tested/approved prototype. - Product should be installed/used in accordance with manufacturer's instructions.
Notes / Documentation:	- SwRI Project No. 01.17789.02.032m dated 7 June 2013; Fire Performance Evaluation in Accordance with Part 5 of Annex 1 of the 2010 IMO FTP Code - SwRI Project No. 01.19579.02.018f dated 3 February 2014; Smoke and Toxicity Evaluation in Accordance with Part 2 of Annex 1 of the 2010 IMO FTP Code
Term of Validity:	This Product Design Assessment (PDA) Certificate 18-HS1716457-PDA, dated 08/Mar/2018 remains valid until 07/Mar/2023 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:	2018 Rules for Condition of Classification, Part 1, 1-1-4/7.7, 1-1-A3, and 1-1-A4, which covers the following: 2018 Rules for Building and Classing Steel Vessels 3-4-1 2018 Rules for Condition of Classification - Offshore Units and Structures, Part 1, 1-1-4/9.7, 1-1-A2, and 1-1-A3, which covers the following: 2018 Rules for Building and Classing Mobile Offshore Drilling Units, 5-1-1/3.5, 5.17 & 5.21
National Standards: International Standards:	2010 IMO FTP Code - Resolution MSC.307(88) (Adopted 3 December 2010), 2012 Edition (enter into force 1 July 2012), Annex 1 Parts 2 & 5.
Government Authority:	United States Coast Guard Approval Number 164.106/47/0, dated 18 October 2017, expires 18 October 2022. Transport Canada TP 14612E (3rd Edition, May 2011, Chapter 2) for manufacturing facilities with ABS manufacturing assessment only.
EUMED: Others:	

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	18-HS1716457-PDA	08-MAR-2018	07-MAR-2023



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.