Confirmation of Product Type Approval

Company Name: EPMAR CORPORATION

Address: 9930 PAINTER AVE. WHITTIER CA 90605 United States

Product: Deck Coverings

Model(s): SynDeck SS1290FC Ultra Lightweight Underlayment with SynDeck SS1222 Bond Coat

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	25-0195355-PDA	04-FEB-2025	03-FEB-2030
Manufacturing Assessment (MA)	25-6805723	23-JAN-2025	22-JAN-2030
Product Quality Assurance (PQA)	NA	NA	NA

Tier
3 - Type Approved, unit certification not required

Intended Service
Marine & Offshore Applications - Primary Deck Covering and Floor Covering for Ships and Offshore Facilities.

Description
SynDeck™ Ultra Lightweight Underlayment SS1290FC is a three component, aggregate-filled, 100% solids, amine-cured epoxy flooring product. It can be applied as an ultra lightweight underlayment for all approved deck systems, over SynDeck Bond Coat SS1222. The SynDeck Bond Coat SS1222 is a low-viscosity, water-clear, 100% solids epoxy. It is specifically designed as a primer material to be used in conjunction with installation SynDeck SS1290FC Ultra Lightweight Underlayment.

Ratings
1. Materials are not to be capable of producing excessive quantities of smoke and toxic products for primary deck covering and floor covering, as specified in Part 2 of Annex 1 of IMO FTP Code 2010 (Res. MSC.307(88)).

2. Materials are not readily ignitable and meet low flame spread requirements for primary deck covering and floor covering, as specified in Part 5 of Annex 1 of IMO FTP Code 2010 (Res. MSC.307(88)).

Service Restrictions
1. Unit Certification is not required for this product.

2. 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.

3. The scope of type approval is to comply with MSC.1/Circ.1221 dated 11 December 2006.

4. The product is approved for application to any metallic substrate having a thickness greater than 3 mm.

5. Two systems, SS1290FC and SS1222, are to be applied to an approximate thickness of 6.35 mm per manufacturer's instructions.

6. The thickness of the application for the SS1290FC should not exceed 6.35 mm, inclusive of the SS1222 Bond Coat applied at 4 mils, for use as a deck covering or floor covering from a flammability and smoke/toxic generation standpoint.

7. Any adhesive used, other than the one used during testing, must be tested for low flame spread characteristics and must not produce excessive quantities of smoke and toxic products, in accordance with Parts 2 and 5 of Annex 1 of the IMO 2010 FTP Code.

Comments
1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

2. The product is 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.

3. The product is to be stored, handled and applied in accordance with the manufacturer's instructions.

4. Unless specially directed by Administration, this approval is not to be construed as a substitute for Flag Administration's approval for the purpose of SOLAS (Consolidated Edition 2025), as amended.

5. This assessment has not been performed on behalf of any flag Administration.

6. This certificate may not be used for EU and US flagged vessels (MED and/or USCG have their own specific requirements).

7. Individual review to the intended use on specific vessel, MODU or facility is required.

Notes, Drawings and Documentation
1. Drawing No. 104871273MID-001, Intertek EPMAR Corp Test Report – IMO 2010 FTP Code Part 2 - Smoke and Toxicity Test on SS1290FC-58 dated 12-16-2021 (Revised 02-09-2022), Revision: 1, Pages: 15

2. Drawing No. 104871279SAT-002, Intertek EPMAR Corp Test Report – IMO 2010 FTP Code Part 5 - Testing on SS1290FC-58 2-6 dated on 12-16-2021, Revision: 0, Pages: 12

3. Drawing No. Technical Data Sheet, SynDeck Ultra Lightweight Underlayment (SS1290FC), Revision: -, Pages: 3

Term of Validity
This Product Design Assessment (PDA) Certificate remains valid until 03/Feb/2030 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules
ABS Rules for Conditions of Classification, Part 1A (2025): 1A-1-4/7.7, 1A-1-A3 and A4, which covers the following:

2025 ABS Marine Vessels Rules 3-4-1

ABS Rules for Conditions of Classification – Offshore Units and Structures, Part 1B (2025): 1B-1-4/9.7, 1B-1-A2 and A3, which covers the following:

2025 ABS Offshore Units Rules 5-1-1/3.5, 5-1-1/5.17, 5-1-1/5.21 & 5-1-1/5.23.

International Standards
2010 IMO FTP Code - Resolution MSC.307(88), 2012 Edition (enter into force 1 July 2012) Parts 2 & 5 of Annex 1.

EU-MED Standards
NA

National Standards
NA

Government Standards
The product complies with the following sections of the Canadian Vessel Fire Safety Regulations (SOR/2017-14): 225, 327(1)(b) and 327(3)(b), and when produced at a facility with an ABS manufacturing assessment (MA) is recognized by Transport Canada in accordance with TP 14612E-Procedures for Approval of Life-Saving Appliances and Fire Safety Systems, Equipment and Products (5th Edition, 11/2024, Chapter 2).

Other Standards
NA

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 09-Jul-2025 1:36

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 is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the “Intended Service” details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. 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.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

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.

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.