



Confirmation of Product Type Approval

Company Name: EPMAR CORPORATION

Address: 9930 PAINTER AVE. WHITTIER CA 90605 United States

Product: Deck Coverings

Model(s): SynDeck IMO Epoxy - Colors & Clear SS5000

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	24-0136392-PDA	27-NOV-2024	26-NOV-2029
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 IMO Epoxy - Colors & Clear SS5000 is a top-quality amine-cured epoxy coating. It is 100% solids, very low odor, user friendly, and has excellent abrasion resistance. This product cures to a resilient, high-gloss film and is available in an array of colors, as well as clear. It can be applied over deck underlayments and properly prepared existing epoxy coatings, resulting in a new, high gloss finish in one to two coats.

SynDeck IMO Epoxy - Colors & Clear SS5000 is self-leveling, has superior gloss and can be applied at lower temperatures (50°F/10°C) with no blushing. Product is dry for foot traffic overnight.

Ratings

Material is not readily ignitable and meets low flame spread requirements for primary deck covering and floor covering as specified in IMO FTP Code 2010 (Res. MSC.307(88)) Part 5 of Annex 1. Product meets Part 2 of Annex 1 without further testing by complying with paragraph 2.7 in appendix 4 of Annex 1: Part 5 of the IMO FTP Code 2010 (Res. MSC.307(88)).

Material is deemed not capable of producing excessive quantities of smoke or toxic products.

Service Restrictions

1. 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.

2. The scope of Type Approval is to comply with MSC.1/Circ.1221 dated 11 December 2006.
3. The product is approved for application to any metallic substrate having a thickness higher than 3 mm.
4. The thickness of the application should be between 6 and 10 mils and should not exceed 10 mils (0.254 mm) for use as a floor covering from a flammability and smoke generation stand point.
5. Two component epoxy to be installed per manufacturer instructions.
6. If any adhesive is used other than the one used during testing, then that has to be tested for low flame spread characteristics according to IMO 2010 FTP Code Part 5.

Comments

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. 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.
3. Production item should be installed/used in accordance with 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 2020), as amended.
5. This assessment has not been performed on behalf of any flag administration.
6. For use on US or EC flagged vessels, please use the equivalent USCG or EC/EMSA MED approval(s).
7. Individual review to the intended use on specific vessel, MODU or facility is required.

Notes, Drawings and Documentation

INTERTEK Test Report Project Number 104055093SAT-002 dated 07 October 2019 (11 pages): IMO 2010 FTP Code Part 5 Testing on SYNDECK IMO Epoxy

Drawing No., Epmar Declaration of Conformity SS5000 Clear & Color.

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 26/Nov/2029 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 (2024): 1A-1-4/7.7, 1A-1-A3 and A4, which covers the following:

2024 ABS Marine Vessel Rules 3-4-1

ABS Rules for Conditions of Classification – Offshore Units and Structures, Part 1B (2024): 1B-1-4/9.7, 1B-1-A2 and A3, which covers the following:

2024 ABS Mobile 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

USCG Certificate of Approval 164.117/46/0, issued 10 June 2023, expires 10 June 2028 as a Floor Finish (SOLAS)

The product complies with the following sections of the Canadian Vessel Fire Safety Regulations: 224, 225, and 327(1)(b) and 327(3)(b) and products are approved on behalf of the Minister of Transport (Transport Canada) in accordance with TP14612, when manufactured at a facility with an ABS manufacturing assessment (MA).

Other Standards

NA



A handwritten signature in dark ink, appearing to read "Joseph W. H.", is positioned above the corporate information.

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 09-Jul-2025 1:40

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.