



Confirmation of Product Type Approval

Company Name: ITW PERFORMANCE POLYMERS

Address: 30 ENDICOTT ST. DANVERS MA 01923 United States

Product: Synthetic Repair Compounds & Resins

Model(s): Flexane Brushable Urethane 15350

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	21-2146967-PDA	03-AUG-2021	02-AUG-2026
Manufacturing Assessment (MA)	20-4300268	05-JUN-2020	04-JUN-2025
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Marine & Offshore Application - Patching, Sealing, Coating, Rebuilding, and Resurfacing worn Areas. Also for use as a Protective Coating on new Equipment. Suitable for use on metal, concrete, rubber, wood and fiberglass.

Description

Rubber-like brushable two part urethane for protection against abrasion and impact.

Ratings

Cure Hardness: ~ 86A

Tensile Strength: ~ 3,500 psi

Maximum Elongation: 600%

Tear Resistance: ~ 400 pli

Please also See attached "pdf" Technical Data Sheet & MSDS.

Service Restrictions

1. An engineering design assessment may be carried out for each application.
2. The repair is considered temporary and inspection intervals are to be agreed with ABS. If the area of interest has shown accelerated wastage, the bandage may only be acceptable for temporary use, pending the next available repair period. The condition and extent of damage are to be recorded.

3. ABS Survey is to be contacted prior to commencing preparations for use of Flexane Brushable Urethane 15350, in order to assess the suitability for the specific application. Surveyor to attend application planning meeting for specific project, together with an ITW Consultant and Application Team.
4. Surveyor to attend upon completion of surface cleaning as specified and immediately prior to application of the Flexane Brushable Urethane 15350.
5. Personnel involved in the installation of the repair system are to be trained and qualified/ endorsed by ITW Performance Polymers.
6. Unit Certification is not required for this product. If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
7. All repairs should be installed by certified personnel with the manufacturer's instructions in accordance with approved drawing.
8. No pad repairs are to be located in areas subject to abnormal design loads such as impact, slamming or significant vibration.
9. Keep from freezing. The resin may crystallize at temperatures below 50°F. This does not affect the properties of the product. If after opening, resin has an opaque, whitish color, apply lid and allow to stand at 70°F overnight or until resin become clear.
10. The manufacturer is responsible for identifying all containers in the batch with some form of permanent marking.

Comments

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. This coating has been found to be complying with the identified standards. Proper application in accordance with the manufacturer's instruction is needed, which should reflect the application of the test cases used to determine compliance.
3. ABS expressly disclaims all warranties with respect to the coating and the design assessment, including warranties of merchantability and fitness for a particular purpose. Successful coating is dependent on coating properties (some of which may not have been addressed in the approval standard), proper application (including surface prep, application, curing environment, etc.) and proper maintenance. These aspects are beyond the scope of this type approval.

Notes, Drawings and Documentation

- Drawing No. 15350 Declaration of Conformity 07-28-21, Declaration of Conformity, Revision: -, Pages: -
- Drawing No. 15350 tds flexane-brushable_041418, Technical Data Sheet, Revision: -, Pages: 1
- Drawing No. Correspondence, Request for Approval, Revision: -, Pages: 1
- Drawing No. Correspondence, Supporting Information, Revision: -, Pages: 1
- Drawing No. R5TJGIW, Technical Data Sheet, Revision: -, Pages: 1
- Drawing No. sds 15350 04.30.20, Safety Data Sheet, Revision: 2, Pages: 1

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 02/Aug/2026 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

2021 Marine Vessel Rules: 1-1-4/7.7, 1-1-A3 and A4

2021 Facilities on Offshore Installations: 1-1-4/9.7, 1-1-A2 and A3

2021 Mobile Offshore Units: 1-1-4/9.7, 1-1-A2 and A3

2021 High Speed Craft: 1-1-4/11.9, 1-1-A2 and 3

2021 Steel Barges: 1-1-4/7.7, 1-1-A2 and A3

2021 Steel Vessels for Service on Rivers and Intracoastal Waterways: 1-1-4/7.7, 1-1-A3 and A4

International Standards

NA

EU-MED Standards

NA

National Standards

ASTM D412-16 (2021)

ASTM D624-00 (2020)

ASTM D2240-15 (2021)

Government Standards

NA

Other Standards

NA



A handwritten signature in blue ink, appearing to read 'Joseph W. ...', is written over a light blue grid background.

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 23-Oct-2024 1:12

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.