



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): Ceramic Repair Putty (Stock #11700) Ceramic Repair Compound (Stock #11730) Brushable Ceramic Red (Stock #11760, 11762, 11763) Brushable Ceramic Blue (Stock #11765, 11767, 11768) Brushable Ceramic White (Stock #11770)

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	22-2263209-PDA	16-JUN-2022	15-JUN-2027
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.

Description

Ceramic Repair Putty / Compound (Stock #11700, 11730): Trowelable, ceramic-filled epoxy for rebuilding worn or damaged equipment.

Brushable Ceramic Red (Stock #11760, 11762, 11763), Brushable Ceramic Blue (Stock #11765, 11767, 11768), Brushable Ceramic White (Stock #11770): A brushable ceramic-filled epoxy for sealing, protecting and repairing surfaces subject to erosion, corrosion and wear.

Ratings

Typical Mechanical Properties

Ceramic Repair Putty

Adhesive Tensile Shear: 2,000 psi

Compressive Strength: 12,700 psi

Flexural Strength: 6,475 psi

Ceramic Repair Compound

Adhesive Tensile Shear: 2,231 psi

Compressive Strength: 10,240 psi

Flexural Strength: 5,870 psi

Brushable Ceramic Red / Blue / White

Adhesive Tensile Shear: 2,000 psi

Compressive Strength: 15,200 psi

Flexural Strength: 8,000 psi

Please also see attached "pdf" Technical Data Sheets.

Service Restrictions

1. 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.
2. If repair involves any pressure-containing or structural component, or if repairs are extensive, the ABS Surveyor is to be contacted prior to starting preparation in order to obtain the Surveyor's acceptance for the specific application.
3. The repair is considered temporary and inspection intervals are to be agreed with ABS. If the area of interest has shown accelerated wastage, the repair may only be acceptable for temporary use, pending the next available repair period. The condition and extent of damage are to be recorded.
4. ABS Survey is to be contacted prior to commencing preparations for use of type approved products, in order to assess the suitability for the specific application. Surveyor to attend application planning meeting for specific project, together with ITW Performance Polymers Consultant and Application Team.

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 type approved as complying with the identified standard. 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.
4. The 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. Correspondence, Request for Approval - Revalidation 17-HS1614680-PDA, Revision: -, Pages: 1

Drawing No. No Change Confirmation, Client Letter - Revalidation 17-HS1614680-PDA, Revision: -, Pages: 1

Drawing No. 11700-devcon-ceramic-repair-putty-3-lb, Safety Data Sheet 11700, Revision: -, Pages: -

Drawing No. 11760-devcon-brushable-ceramic-red-2-lb, Safety Data Sheet 11760, Revision: -, Pages: -

Drawing No. 11770-devcon-brushable-ceramic-white-2-lb, Safety Data Sheet 11770, Revision: -, Pages: -

Drawing No. 11765-devcon-brushable-ceramic-blue-2-lb, Safety Data Sheet 11765, Revision: -, Pages: -

Drawing No. 11730-012421, Safety Data Sheet 11730, Revision: -, Pages: -

Drawing No. brushable-ceramic-blue-red_070618, Technical Data Sheet 11760, 11765, Revision: -, Pages: -

Drawing No. brushable-ceramic-white_041418, Technical Data Sheet 11700, Revision: -, Pages: -

Drawing No. ceramic-repair-putty_041418, Technical Data Sheet 11770, Revision: -, Pages: -

Drawing No. ceramic-repair-compound_041418, Technical Data Sheet 11730, Revision: -, Pages: -

Drawing No. PO 051922MB, Purchase Order, Revision: -, Pages: -

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 15/Jun/2027 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

2022 Marine Vessels Rules: 1-1-4/7.7, 1-1-A3; 1-1-A4

2022 Mobile Offshore Unit Rules: 1-1-4/9.7, 1-1-A2; 1-1-A3, which covers the following:

Mobile Offshore Drilling Units 5-1-1/5.21, 5-1-5/5.23

International Standards

NA

EU-MED Standards

NA

National Standards

ASTM C177 (2019)

ASTM D149 (2020)

ASTM D150 (2018)

ASTM D638 (2014)

ASTM D695 (2015)

ASTM D696 (2016)

ASTM D790 (2017)

ASTM D1002 (2019)

ASTM D2240 (2021)

Government Standards

NA

Other Standards

NA



A handwritten signature in dark ink, appearing to read "James J. Wilk".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 23-Oct-2024 1:11

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.