



Confirmation of Product Type Approval

Company Name: HENKEL ITALIA OPERATIONS S.R.L.

Address: VIA G. PUCCINI, 65/67 20080 Italy

Product: Epoxy Chocking Resin

Model(s): Loctite® PC 7202 / Loctite® Fixmaster® Marine Chocking / Loctite® 7202

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	17-HS1649403-PDA-DUP	19-JUL-2017	18-JUL-2022
Manufacturing Assessment (MA)	17-GE3305205	27-SEP-2017	26-SEP-2022
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Marine & Offshore Application - Foundation Chocking of Propulsion Machinery, Generators, Deck Machinery, Sterntubes, Strut and Rudder Bearings and other Auxiliary Machinery.

Description

Two-part Epoxy Chocking System.

Ratings

Maximum Total Surface Pressure / Maximum Service Temperature : 2.3 N/mm² at 90 °C, 4.5 N/mm² at 80 °C, 5.9 N/mm² at 70°C, 7.0 N/mm² at 60 °C, 8.0 N/mm² at 50 °C, 8.7 N/mm² at 40 °C, 9.4 N/mm² at 30 °C and 10.0 N/mm² at 20 °C.

Total deadweight loading on the resin chocks due to weight of the machinery shall not exceed 0.9 N/mm²

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 following properties of the material are to be reviewed on a case by case basis with regard to the criticality of machinery alignment requirements:

- (1) Compressive load bearing ability
- (2) Maximum temperature in service . See 4-2-1/ 11.5

Comments

Duplicate PDA's reside with Henkel Corporation - CLEVELAND and Henkel Italia S.P.A. - MILANO; Henkel Italia Operations S.r.l - CASARILE (MI), ITALY.

The arrangements and installation procedures are to be in accordance with the manufacturer's recommendations. Prior to installation, arrangements of the proposed installation, along with installation parameters such as deadweight, holding-down bolt tightening torque, etc., and calculations showing that the manufacturer's specified allowable pressure is not exceeded, are to be submitted for review in each case as per 4-2-1/11.5 and 4-3-2/11.1.2 of the Rules.

In case of chocking installation for stern tubes and struts the assembly should have means to prevent bearing(s) from rotating with the shaft. In addition, there should be a sealing arrangement to prevent seawater contact with the chocking material and inflow into the bearing unless this is a water lubricated arrangement. The machinery manufacturers shall be consulted with regard to their approval/recommendations in connection with the use of Fixmaster Marine Chocking.

The chocking installation is to be carried out by qualified personnel in accordance with Henkel's established and recommended procedure. Upon completion of the pouring of subject compound correct alignment of the machinery is to be verified and suitable warning notices are to be fitted in conspicuous places in the relevant compartment to avoid unintentional re-tightening of down holding foundation bolts.

This product is not to be used in pure oxygen and/or oxygen rich systems or as a sealant for chlorine or other strong oxidizing materials.

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

Notes, Drawings and Documentation

Technical Data Sheet for Loctite PC 7202 (November 2014), Revision: -, Pages: 3

Supporting Data (previous task T1055816:

Certificate of Analysis 11Oct 2011

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 18/Jul/2022 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

Rules for Conditions of Classification, Part 1 2017 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

Rules for Building and Classing Steel Vessels, Part 4, 2017 Steel Vessel Rules: 4-2-1/11.5, 4-3-2/11.1.3 ; 4-3-4/21.1

International Standards

NA

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in black ink, appearing to read "Joseph W. ...".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 07-Dec-2021 9:09

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.