



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

23-2359655-PDA
30-Jan-2023
29-Jan-2028
Rotterdam Materials Eng

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

WEICON GMBH & CO. KG

located at

**KOENIGSBERGER STRASSE 255, , DE - 48157 MUENSTER,
Germany**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Synthetic Repair Compounds & Resins
Model: WEICON HT 111 Epoxy Resin
Endorsements:
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 29/Jan/2028 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.

American Bureau Of Shipping

Nikolaos (Nikos Vrellos) Vrellos, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

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Web: www.weicon.com

Tier: 2 - PDA Issued

Product: Synthetic Repair Compounds & Resins
Model: WEICON HT 111 Epoxy Resin
Endorsements:

Intended Service:

Marine, Offshore and Industrial Application - Repair and bonding of cast and metal parts, for filling in blow holes, for repairing damage on containers, carriages, and machine parts and for sealing pumps and pipes.

Description:

Two part epoxy resin system with steel filler and high-temperature resistant, used for the repair of machinery parts due to tear and wear, corrosion, etc.

Rating:

Mixing ratio by weight %, Resin: Hardener - 100:100

Physical Properties

Compressive strength > 90 N/mm²
Tensile Modulus 6600-7600 N/mm²
Hardness > 80 Shore D

Service Temperature

-35 °C to 200 °C degrees Celsius, after curing at room temperature, at 21 °C, for 48 h.

Service Restriction:

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.

Repairs on piping are not to be commenced without prior consultation and agreement with the ABS Surveyor.

Comments:

Prior to each repair, a reconditioning plan is to be prepared and discussed with the attending ABS Surveyor. The repair plan is to include as minimum the material to be removed from the affected machinery part, the cleaning and inspection methodology, the thickness of the epoxy resin applied, any curing taken place, etc. When required, calculations showing that the manufacturer's specified minimum allowable strength and corresponding thickness/diameter are maintained, are to also be carried out.

The reconditioning and repair procedures, especially for critical equipment, are to be in accordance with the equipment Manufacturer's recommendations.

The repairs are to be carried out by qualified personnel in accordance with WEICON's established and recommended procedure. Upon completion of the repair the correct alignment and balancing of the machinery is to be verified.

The use of these products is not permitted on any pressure part in containing a toxic or flammable liquid or gas.

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

Notes/Drawing/Documentation:

Drawing No. ABS Type Approval Request Form HT 111, Client Request
Drawing No. Application for PDA, ABS PDA Request
Drawing No. Client Response, Client Confirmation, Revision: -, Pages: 1
Drawing No. EN_GB_GA_10260005_WEICON_HT_111, Product Application
Drawing No. Epoxy Resin HB 300 and HT 111, Datasheet

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Drawing No. HT111_BL_pumps_PS186, Example Application 1
Drawing No. HT111_drive_shaft_PS200, Example Application 2
Drawing No. ISO 9001 Certificate WEICON, QA Certificate
Drawing No. Kunststoffinstitut Ludenscheid-TG Werte TG Werte fur Plastik-Stahl, Material Properties
Drawing No. Material Testing Confirmation, Client Confirmation
Drawing No. Prufbericht NM18, Physical properties
Drawing No. Correspondence, Client Confirmation PDA

Terms of Validity:

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STANDARDS

ABS Rules:

2023 Rules for Conditions of Classification - Ships 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:
Rules for Building and Classing Marine Vessel Rules: Part 4-1-1/3.3
Rules for Building and Classing Steel Vessels for Service on Rivers and Intracoastal Waterways: Part 4-1-1/3.3
Guide for Building and Classing Yachts: Part 4-1-1/3.3

2023 Rules for Conditions of Classification - Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA