



CERTIFICATE NUMBER  
EFFECTIVE DATE  
EXPIRY DATE  
ABS TECHNICAL OFFICE

26-0549272-PDA  
30-Jun-2026  
29-Jun-2031  
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 Ceramic HC 220  
**Endorsements:**  
**Tier:** 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 29/Jun/2031 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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**Tier: 2 - PDA Issued**

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**Product:** Synthetic Repair Compounds & Resins  
**Model:** WEICON Ceramic HC 220  
**Endorsements:**

**Intended Service:**

Marine, Offshore and Industrial Application - High abrasion resistance and wear protection for heavily used surfaces, and when combined with coarse materials such as silicon carbide in grain sizes of F14-F24, it may serve as an anti-slip coating, enhancing slip resistance in industrial facilities.

**Description:**

WEICON Ceramic HC 220 is a two-component, ceramic-filled, with high abrasion, high adhesive strength and resistant to high temperature and chemicals. WEICON Ceramic HC 220 provides wear protection whilst is non-corrosive, anti-magnetic and cures practically without shrinkage.

**Rating:**

Mixing ratio by weight %, Resin: Hardener - 100:10

**Physical Properties**

Tensile Strength: 51 MPa  
Compressive strength: 160 MPa  
Tensile Modulus: 5300-7000 MP  
Hardness: 85±3 Shore D

**Service Temperature**

-35°C to 220°C degrees Celsius.

**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 application, a plan is to be prepared and discussed with the attending ABS Surveyor. The application 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 application and/ or reconditioning 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. SDS\_105232\_DE\_EN\_WEICON, Safety Datasheet, Revision: 2.4, Pages: 19  
Drawing No. ISO 9001-2015 Englisch, QA Certificate, Revision: -, Pages: 1

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Drawing No. L\_PW\_25.18632\_WEICON\_Bericht, Test Report, Revision: -, Pages: 10  
Drawing No. EN\_GB\_TDS\_WEICON\_Ceramic\_HC\_220, Technical Datasheet, Revision: 00, Pages: 5  
Drawing No. SDS\_105231\_DE\_EN\_WEICON\_Ceramic HC 220 Epoxy Hardener, Revision: 2.4, Pages: 15  
Translated\_L\_PW\_25.18632\_WEICON\_Bericht\_en, Test Report, Revision: -, Pages: 10

**Terms of Validity:**

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Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

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**STANDARDS**

**ABS Rules:**

2026 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

2025 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