DNV·GL

Certificate No:
TAK000019U

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Protective Coating Systems - Cargo Oil Tanks

with type designation(s)
Tankguard Storage

Issued to
Jotun A/S
SANDEFJORD, Norway

is found to comply with
DNV GL class programme DNVGL-CP-0139 – Type approval – Protective coating systems for cargo oil tanks
IMO Resolution MSC.288(87) Performance Standard for Protective Coatings (PSPC)
IACS Unified Interpretations SC259. For Application of SOLAS Regulation II-1/3-11 Performance Standard for Protective Coatings for Cargo Oil Tanks of Crude Oil Tankers (PSPC-COT), adopted by Resolution MSC.288(87).

Application :

For use in cargo oil tanks of crude oil tankers. Surface preparation and coating application as per PSPC or manufacturer's recommendations, whichever is stricter.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Hamburg** on **2018-07-04**
This Certificate is valid until **2023-06-30**.
DNV GL local station: **Sandefjord**

Approval Engineer: **Enno Brück**

for **DNV GL**

Thorsten Lohmann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Job Id: **262.1-021105-5**
Certificate No: **TAK000019U**

Product description

Tankguard Storage, 2-component epoxy based, light coloured, coating for corrosion protection of steel surfaces.

Manufactured by

Jotun Coatings (Zhangjiagang) Co. Ltd., Jiangsu Yangtze River Internat., Chemical Industry Park, Zhangjiagang Free Trade Zone, Jiangsu 215634, China

DNV local office: Nanjing

Responsibility

The Company (stated on the front page of this Certificate) takes the responsibility that both design and production are in
compliance with Rules, Standards and/or Regulations listed on page 1 of this certificate.

Application/Limitation

This approval is solely connected to the corrosion prevention properties of the coating material. The approval does not include
any evaluation of toxicity, contamination, pollution, or fire technical properties.

Tankguard Storage is approved for application on blast cleaned surfaces and on shop primed surfaces. The following shop primers are prequalified:

MUKI Z 2001	[Jotun A/S]
MUKI Z 2008	[Jotun A/S]

Surface preparation and coating application as per PSPC or manufacturer's recommendations, whichever is stricter.

The durability of the applied coating system will depend on the steel surface preparation, coating application and the environmental conditions.

The Type Approval Certificate is invalid if the formulation of the epoxy coating **Tankguard Storage** is changed to a degree deemed significant by Det Norske Veritas. If the formulation of any of the listed pre-qualified shop primers is changed to a degree deemed significant by Det Norske Veritas that shop primer cannot be used as part of the Protective Coating System.

Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**. The tests reported in the COT bv Reports are carried out in accordance with the procedures in IMO Resolution MSC.288(87) Performance Standard for Protective Coatings (PSPC), ref. IACS UI SC259;

- COT bv Report No. LAB11-0995-REP, Rev. 01 "Crude Oil Test Tankguard Storage on Mukiz Z 2001" of 2011-12-14.
- COT bv Report No. LAB12-0140-REP, Rev. 01 "Crude Oil Test Tankguard Storage on Mukiz Z 2008" of 2012-02-28.

Marking of product

Product/package shall be marked with *manufacturer's name and address*; **Jotun Coatings**

(Zhangjiagang) Co. Ltd., Zhangjiagang, Jiangsu, China, *type designation*; **Tankguard Storage**, and *date of production/batch number*.

The marking is to be carried out in such a way that it is visible, legible and indelible. The marking of product is to enable traceability to the DNV Type Approval Certificate.

Periodical assessment

The scope of the Periodical Assessment is to verify that the conditions stipulated for the Type Approval is complied with and that no alterations are made to the product design or choice of materials.

Periodical Assessment to be performed after 2 and 3.5 years (Certificate Retention) and at renewal after 5 years (Certificate Renewal).

END OF CERTIFICATE