DNV·GL

Certificate No:
TAK00000FU

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Shop Primers

with type designation(s)
W2RI (Weldable Rust Inhibitor)

Issued to
Samsung Heavy Industries Co., Ltd.
Geoje-si, Gyeongsangnam-do, Republic of Korea

is found to comply with
DNV GL class programme DNVGL-CP-0109 – Type approval – Shop primers for corrosion protection of steel plates and sections
DNV GL rules for classification – Ships

Application :

The weldable rust inhibitor is approved for application on steel plates and sections. The surface preparation and application shall be as per manufacturer's recommendations.

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

This Certificate is valid until **2021-09-01**.

Issued at **Høvik** on **2016-09-02**

for **DNV GL**

DNV GL local station: **Gimhae MC & FIS**

Approval Engineer: **Gisle Hersvik**

Martin Strande
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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Product description

W2RI (Weldable Rust Inhibitor); A one-component weldable rust inhibitor designed for good corrosion protection to the steel surfaces.

Application/Limitation

The weldable rust inhibitor is approved for application on steel plates and sections.

The recommended Dry Film Thickness, DFT, is less than 5 µm. Application to be done by sponge brush or sponge roller.

The approval test does not include an examination of possible effects of welding with this weldable rust inhibitor on the welder's state of health.

This approval only verifies that the weldable rust inhibitor tested has no detrimental effect on the finished weld, on condition that the film thickness applied is in accordance with the manufacturer's recommendation.

The **W2RI (Weldable Rust Inhibitor)** shall not be used, without removal, under IMO PSPC WBT/COT regime unless tested in accordance with IMO PSPC WBT/COT requirements.

Type Approval documentation

1.
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3.
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Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**, ref. SHI Test Report "Welding Test Report for Type Approval of Weldable Rust Inhibitor" of 2016-08-24, with the following result:

- 0% porosity (no porosity observed) (max. allowed porosity 15 %).

Marking of product

Product shall be marked with *manufacturer's name*; **Samsung Heavy Industries Co., Ltd., Korea** and *type designation;* **W2RI (Weldable Rust Inhibitor)**.

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 GL 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 years (Certificate Retention) and at renewal after 5 years (Certificate Renewal).

The main elements of the Periodical Assessment are to:

- Ensure that **Type Approval documentation** is available.
- Review design, materials, production process, and performance with respect to possible changes, in order to ensure compliance with **Type Approval documentation** and/or referenced material specifications.
- Ensure traceability between manufacturer's product marking and the DNV GL Type Approval Certificate.

END OF CERTIFICATE