DNV·GL

Certificate No:
TAK00000KD

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Shop Primers

with type designation(s)
SigmaWeld 199

Issued to
PPG Coatings Europe B.V. Protective & Marine Coatings
AMSTERDAM, Netherlands

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

Application :

The shop primer is approved for application on blast cleaned steel plates and sections.

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

This Certificate is valid until **2021-12-11**.

Issued at **Høvik** on **2016-12-12**

for **DNV GL**

DNV GL local station: **Rotterdam**

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

SigmaWeld 199; two component moisture curing, reduced zinc (ethyl) silicate prefabrication primer.

Manufactured by

PPG Coatings SPRL/BVBA, Tweemontstraat 104, Deurne, 2100, Belgium.

DNV GL Local Office: Antwerp

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

The shop primer is approved for application on blast cleaned steel plates and sections.

The approval test does not include any examination of possible effects of welding with this primer on the welder's state of health.

This approval verifies only that the shopprimer tested has no detrimental effect on the finished weld, it is presumed that the film thickness applied is in accordance with the manufacturer's recommendation.

Type Approval documentation
Tests carried out

Type Testing carried out according to **Type Approval documentation**, according to DVS-Guideline 0501, Report No. 95 34 039/1 dated 4th October 1995, with result:

- Mean pore area 10,6 mm^2 (max. allowed pore area 125 mm^2).

Marking of product

Product shall be marked with *manufacturer's name;* **PPG Coatings SPRL/BVBA, Deurne, Belgium** and *type designation;* **SigmaWeld 199**.

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 and 3.5 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 DNV GL Type Approval Certificate.

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END OF CERTIFICATE