DNV·GL

Certificate No:
TAK00001T4

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Shop Primers

with type designation(s)
WEGZINC 401

Issued to
PAUMAR S.A. - INDUSTRIA E COMERCIO
Rodovia BR 280, 89270-000 Guaramirim, SC, Brazil

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
DNV GL offshore standards

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.

Issued at **Hamburg** on **2019-09-27**
This Certificate is valid until **2024-09-26**.
DNV GL local station: **Station Rio de Janeiro, Ship**

Approval Engineer: **Christine Löll**

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: **262.1-011887-4**
Certificate No: **TAK00001T4**

Product description

WEGZINC 401; Two-component ethyl silicate shop primer.

Manufactured by

PAUMAR S.A. - INDUSTRIA E COMERCIO, Rodovia BR 280, km 50, 6918, bloco A,
89270-000 Guaramirim, SC, Brazil

DNV GL local station: Rio de Janeiro

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.

Tests carried out

Type Testing carried out in accordance with DNV GL CP-0109; Ref. Analysis Report No. 06126277 MCRJ, from TORK Controle Tecnológico de Materiais Ltda., Brazil, of 2006-12-06, with the following test result:

- Less than 10% porosity (max. allowed porosity 15%)

Marking of product

Product shall be marked with *manufacturer's name*; **PAUMAR S.A. - INDUSTRIA E COMERCIO** and *type designation*.

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 (Certificate Retention) and renewal after 5 years (Certificate Renewal) shall be performed acc. DNV GL CP-0338.

END OF CERTIFICATE