

# DET NORSKE VERITAS

## TYPE APPROVAL CERTIFICATE

**CERTIFICATE NO. K-3618**  
This Certificate consists of 3 pages

*This is to certify that the*  
**Shop Primers**

*with type designation(s)*  
**Rezinc SSD 594**

*Manufactured by*  
**RENNER HERRMANN S.A**  
CURITIBA, Paraná 81170-300, Brazil


*is found to comply with*  
Det Norske Veritas' Type Approval Programme 1-602.2, 1999, Shop Primers for Corrosion  
Protection of Steel Plates and Sections.  
Det Norske Veritas' Rules for Classification of Ships

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

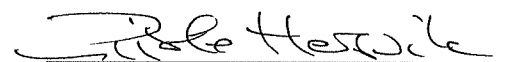
*Place and date*  
Høvik, 2009-02-20  
for DET NORSKE VERITAS AS



*This Certificate is valid until*  
2013-06-30

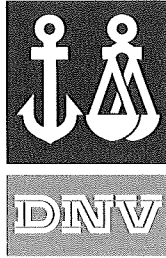
  
Hanne Anita Hjerpetjønn  
Head of Section

*Local Office*  
DNV Rio de Janeiro

  
Gisle Hersvik  
Surveyor

**Notice: 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.**

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



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## Product description

**Rezinc SSD 594;** Two-component zinc-based ethyl silicate shop primer.

## Application/Limitation

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

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

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

## Type Approval documentation

1. Email from DNV Rio de Janeiro of 2008-12-29, including;
  - Product Description/Technical Data Sheet, and
  - Test Report for Initial Type Approval of Shop Primer, Product: Rezinc SSD 594 A/B, ref. SpectroScan Report No. 8658/2008 of 2008-12-05.
2. Survey Report from DNV Rio de Janeiro of 2009-01-23.

## Tests carried out

Type Testing carried out according to **Type Approval documentation.**

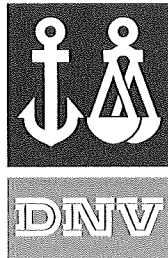
## Marking of product

Product shall be marked with *manufacturer's name*; **Renner Herrmann S.A., Paraná, Brazil** and *type designation*.

## Certificate Retention/Renewal Survey

The scope of the Retention/Renewal Survey 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.

Survey to be performed after two (2) years (Certificate Retention Survey) and at renewal after four (4) years (Certificate Renewal Survey).



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The main elements of the survey are:

- 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 Type Approval Certificate.

END OF CERTIFICATE