

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Vinyl Ester Resins

with type designation(s)
NORPOL FI-184

Issued to

Reichhold AS
SANDEFJORD, Norway

is found to comply with
DNV GL class programme DNVGL-CP-0086 – Type approval – Adhesive systems

Application :

Vinyl Ester Bonding Paste

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

This Certificate is valid until **2018-11-25**.

Issued at **Hamburg** on **2016-06-03**

DNV GL local station: **Sandefjord**

Approval Engineer: **Joachim Rehbein**

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.



Job Id: **262.1-022513-1**
Certificate No: **TAK00000A1**

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Product description

Pre-accelerated vinyl ester bonding paste with hardener CHM-50/ CHM-50-01

Approved Variants:

- NORPOL FI-186
- NORPOL PF-3304
- NORPOL PF-3353
- NORPOL PF-3354

Assessed production sites:

Reichhold AS
Øraveien 8/19
Gamle Fredrikstad, Norway

Reichhold India Pvt.Ltd
F-38, MIDC Ranjangaon,
Taluka, Shirur, Dist-Pune-412220, Republic of India

Reichhold Polymers (Tianjin) Ltd
No. 28, Bibo Street, Han Gu Modern Industry Park, TEDA,
Tianjin, 300480, P.R.China

Application/Limitation

Joining of components on condition that the adhesive material is compatible to the base materials and the applicable requirements of DNV GL are met.

Any significant changes in design and/or quality of the material will render the approval invalid.

This certificate supersedes the Statement of Approval WP 1540006 HH.

Type Approval documentation

- Technical Data Sheets/MSDS
- Test Results witnessed by DNV GL
- Statement of conformity by Reichhold dated 2014-09-11
- Audit reports from production plants

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 shall be performed after 2.5 years (Certificate Retention) and at renewal after 5 years (Certificate Renewal).

A production site with a valid Approval of Manufacturer certificate for material in question is exempted from the obligation concerning retention and renewal assessments.

END OF CERTIFICATE