

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Epoxy Systems

with type designation(s)
RESOLTECH 1200

Issued to

RESOLTECH SAS
Rousset, Bouches du Rhone, France

is found to comply with

DNV GL class programme DNVGL-CP-0089 – Type approval – Epoxy resin systems
DNV GL rules for classification – High speed and light craft
DNV GL standard DNVGL-ST-0342 – Craft

Application :

For use in marine vessels in accordance with stated Rules/Standards. Also for use in rotor blade manufacture (wind energy).

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

This Certificate is valid until **2021-10-10**.

Issued at **Høvik** on **2016-10-11**

DNV GL local station: **Marseille**

Approval Engineer: **Gisle Hersvik**

for **DNV GL**

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.

Product description

RESOLTECH 1200 Structural Epoxy Laminating System, with the following hardeners;
RESOLTECH 1204 and RESOLTECH 1208.

The following properties have been verified by Type Testing of cured cast resin:

Property	Test Method	1200/1204	1200/1208		
Fracture Elongation	ISO 527	3.6	3.7	%	mean
Tensile Strength	ISO 527	69,9	80.7	MPa	mean
Water Absorption	ISO 62	14.1	12.9	mg	mean
HDT	ISO 75-2	66	69	°C	mean
Curing Procedure used for Type Testing		16 hrs at 60°C			

Legends:

mean = mean of Type Test results

Type Approval documentation

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.

Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**.

Marking of product

Product shall be marked with *manufacturer's name*; **RESOLTECH SAS, France** 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 to be performed after 2.5 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.



Job Id: **262.1-022884-1**
Certificate No: **TAK00000GC**

- Ensure traceability between manufacturer's product marking and the DNV GL Type Approval Certificate.

END OF CERTIFICATE