

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Adhesive**

with type designation(s)
Rotabond 2000

Issued to

Kent International S.A.S.
Poissy, France

is found to comply with

DNV GL rules for classification – Ships
DNV GL class programme DNVGL-CP-0086 – Type approval – Adhesive systems

Application :

Approved as class A and B flexible adhesive for bonding of e.g. insulating glass, single-pane safety glass, rails for fastening seats, door frames, single-pane polymer glass and windbreakers.

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

Issued at **Hamburg** on **2017-09-26**

This Certificate is valid until **2022-03-18**.

DNV GL local station: **Le Havre**

Approval Engineer: **Joachim Rehbein**

for **DNV GL**

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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: **262.1-026091-1**
Certificate No: **TAK00000YY**

Product description

One component MS - polymer

Assessed production site

Rue André Citroen - Zone Industrielle aux Pres
Loribes 59128 Flers-en-Escrebieux
France

Application/Limitation

The adhesive is in compliance with the applicable requirements of DNV GL and is compatible to the adherends. Any significant changes in design and / or quality of the material will render the approval invalid.

Approved as class A and B flexible adhesive for bonding of e.g. insulating glass, single-pane safety glass, rails for fastening seats, door frames, single-pane polymer glass and windbreakers.

Material properties

Item	Test method	Unit	Value
Shore A	DIN 53505	-	50,5
Fracture Strain at -20°C	DIN 53504	-	207,5
Tensile Strength at 60°C	DIN 53504	MPa	2.62
Resistance to Tear Propagation	DIN 53515	MPa	8.01
Tensile Lap Shear Strength 23°C / 50% humidity	in acc. to DIN EN 1465	MPa	0,25
Tensile Lap Shear Strength 60°C	in acc. to DIN EN 1465	MPa	0,15
Creep Test after 90 days Conditioning	in acc. to DIN EN 1465 and DIN 50017	%	20

Type Approval documentation

- Technical Data Sheet, 2017-06-17
- Material Safety Data Sheet
- Test Report No. WP-PB-NA-304072-001 issued by Fraunhofer Institut für Fertigungstechnik Materialforschung, Bremen dated 2005-03-08.
- Quality documents issued for outgoing goods inspection
- Inspection at production site, assessment report 90.02a; dated 2017-08-31

Marking of product

Product shall be marked with manufacturer's name and type designation.

Periodical assessment

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

For manufacturer without a valid AoM a periodical assessment after 2.5 years and at renewal after 5 years is required.

END OF CERTIFICATE