

KLEIBERIT 509.6

1C PUR Adhesive

Field of application

Bonding of insulation materials to different sub-constructions for roofs, (flat roofs) as well as of similar materials to each other. The bond is stable against wind pressure and remains elastic in a wide temperature range, tested at -25°C and +50°C.

A good bond can be obtained with all common heat insulation materials such as:

- Polystyrol particle foam
- Polystyrol extruder foam
- PUR hard foam, un-laminated or laminated with paper or fleece
- Mineral fibre insulants
- Phenolic resin hard foam
- Perlite insulation panels, etc.

The adhesive also bonds well to flat roof sub-constructions such as

- Concrete, gas concrete, asbestos cement boards
- Chip boards
- Sheets with trapezoidal corrugations in accordance with DIN 18 807.
- Bitumen sheeting coated with mineral granules or sanded
- Bitumen pre-coat, for example Eurolan 1

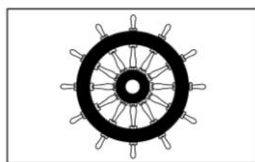
- Bonding in ship building

KLEIBERIT 509.6
complies with IMO
FTP-Code Part 5
& Part 2. Approval
according to test
certificate BG

Verkehr

(department maritime safety)

for international use according to Module B)



Approval no.: 118.234

Certified application quantity: 140 g/m²

Talc powdered asphalt sheeting should be pre-treated with flame.

The adhesive will also bond with bitumen roof coverings, if those are securely fastened, welded or glued down.

The resistance of a bonded roof assembly to wind loads has been tested according to ETAG 006, Section 5.1.4.1.

(Test Report No. 12/2011, Institute IFI Fachhochschule Aachen)

Properties of the adhesive

Base:	isocyanate
Colour:	brown
Specific weight:	1.12 ± 0,02 g/cm ³
Viscosity at 20° C	
Brookfield Sp. 4/20 rpm:	5,000 ± 1,000 mPa s
Flowing properties:	flows out of the container
Identification:	identification required according to EU regulations, contains 4.4' diphenyl methane diisocyanate (see our safety data sheet)

Note: Intended for commercial use only.

Properties of the bond

The adhesive sets by reacting with air humidity and/or moisture in the materials which are to be bonded. If there is hardly any moisture in the air or the substrate, we recommend that an additional fine mist of water be sprayed onto the adhesive following application. No large water droplets should form, otherwise the bond will be weakened considerably.

Application

Remove protective foil inside the package seal and unscrew the flow nozzle included. Cut flow nozzle to size according to the viscosity of the adhesive which in turn depends on the environmental temperature:

at 5 °C	lower range	(= large opening)
at 10 - 19 °C	middle range	(=medium opening)
from 20 °C	upper range	(= small opening)

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Application:

For each meter of material width apply 3 beads of adhesive, on areas that are subject to strong wind pressure such as edges or corners 5-6 beads. The adhesive beads are to be pressed to a width of approximately 5 cm. Press insulating boards or rollable heat insulation lines immediately to achieve contact.

During the curing stage, the adhesive will foam. For larger surfaces usual commercial application units can be used. For uneven substrates it might be necessary to use loads to enable the bonding reaction. On inclined surfaces, the insulation materials have to be secured against sliding. Apply only so much adhesive which can be processed within 15-20 minutes. Corrections are possible within a short time.

Consumption:

For 3 beads of adhesive on 1 m of wide insulation, approximately 100 - 150 g/m²

For bonding in shipbuilding, please observe that the certified application quantity of 140 g/m² is complied with.

Curing:

KLEIBERIT 509.6 sets quickly. Depending on the temperature and the moisture a high initial tack is reached within 1 - 3 hours.

Packaging

KLEIBERIT 509.6:

Carton with 5 metal cans at 2 kg net each (disposable packaging), Pallet: 300 kg
Each package is equipped with a discharge nozzle.

Metal can, 5 kg net (disposable packaging)
Pallet: 420 kg

Additional packaging sizes available upon request.

Storage

Store in a cool and dry place. In factory sealed containers, the product can be stored for at least 12 months.

Open containers should be used quickly, otherwise a film will form. Close containers tightly if the work is interrupted.

KLEIBERIT 509.6 is not frost sensitive at temperatures above -20°C.

Version 29/09/2017 XI; replaces previous versions

Disposal of containers and contents

Waste disposal key **080501**

Disposal of contents and/or containers should comply with all applicable federal, state and local regulations.
Our containers are made of recyclable material.

Service

Our application department may be consulted at any time without obligation. The statements made herein are based on our experience gained to date. They are to be considered as information without obligation. Please test and establish for yourself the suitability of our products for your particular purposes. No liability exceeding the value of our product can be derived from the foregoing statements. This also applies to the technical consultancy service which is rendered free of charge and without obligation.