

## TECHNICAL DATASHEET

### 6200 / 6201 / 6205

(Hybrid polymer)

#### Description

Fast curing, elastic single-component sealant and adhesive for elastic bonding and sealing of seams and joints in car body-, waggon-, container- and shipbuilding. Also suitable for applications in mechanical engineering, in air-conditioners and ventilation technologies.

The product is available in white (6200), grey (6201) and black (6205).

#### Advantages

- good adhesion to glass, a wide range of metal (zinc, aluminium, steel), varnished and primed surfaces
- good adhesion to wooden as well as to mineral substrates and to thermoplastics (except PE, PP, PTFE)
- resistant against humidity, weathering and temperatures from -40°C up to +90°C (up to +120°C for short intervals)
- Can be painted over (often also wet-on-wet)
- Silicone- and solvent-free

#### Physical properties (liquid product)

Chemical base

Hybrid polymer

Curing System

Moisture curing

Shelf life

12 months at 5 – 25 °C

Viscosity at 25°C

(EN 12092, Cone-plate-system, MK25)

Shear rate

10 s<sup>-1</sup>

110'000 – 130'000 mPa•s

100 s<sup>-1</sup>

40'000 – 50'000 mPa•s

Density at 23°C

~ 1.4 g/cm<sup>3</sup>

Colour

6200

White

6201

Grey

6205

Black

**Curing properties**

Application temperature	+ 5 – 30°C
Skinning time at 23°C/50%rh (pre-tests under real ambient conditions are recommended)	~ 10 minutes
Curing progress at 23°C/50%rh (after first 24 h)	~ 3 mm
Volume shrinkage (DIN EN ISO 10563)	~ 3 %
Change of weight (DIN 50014)	~ 1 %

**Physical properties (cured product)**

Thermal range	- 40°C up to 90°C (Short time up to 120°C)
Glass transition temperature (DIN EN ISO 6721-1)	-55°C
Tensile shear strength (DIN 1465) on aluminium	~ 2.6 N/mm <sup>2</sup>
Tensile strength (DIN EN ISO 527) storage 7 days at 23°C/50%rh	~ 2.8 N/mm <sup>2</sup>
Elongation at break (DIN EN ISO 527) storage 7 days at 23°C/50%rh	~ 500 %
E modulus at 100% elongation and 23°C (DIN EN ISO 527) storage 7 days at 23°C/50%rh	~ 0.8 N/mm <sup>2</sup>
Tear resistance (DIN ISO 34-1 Type C) storage 7 days at 23°C/50%rh	~ 20 N/mm
Shore-A-hardness (DIN 53505) storage 28 days at 23°C/50%rh	~ 42

### Usage

Good adhesion to clean, dry and grease-free surfaces (cleaned either with metal cleaner 9190 or plastic cleaner 9195), is achieved even without Primer. Please check the compatibility with varnish and plastic in advance.

Apply 6200 / 6201 / 6205 directly from the cartridge to the substrate using a common dispensing gun for 310 ml cartridge (euro-cartridge). Join parts within 10 minutes and fix until cured. The curing time depends on the layer thickness, temperature and humidity.

### Special consideration

Not suitable for glass bonding with permanent UV radiation to the bonded area. If used on PMMA, it might cause stress-cracking.

### Precautions

For your own safety, please refer to the information of the concerned MSDS.

The information in this data sheet is based on the results of our research and experience. However, the suggestions herein concerning the use, application, and processing of the products (collectively, „the methods“) **are non-binding recommendations only**. It is the user's sole responsibility to determine the suitability and safety of these methods, based on the user's particular purpose in using the products. Before relying on the reliability and safety of any parts that are bonded using the products, it is extremely important that the user test the reliability and safety of the parts that are bonded. Failure to do so could result in serious personal injury. Because of the use of the products are within the purchaser's sole control, Kisling Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability or fitness for a particular purpose, arising from the sale or use of the products described herein. Kisling Corporation specifically disclaims any liability for consequential, incidental, or other damages of any kind, including lost profits. Kisling Corporation's liability for damages shall not exceed the purchase price of the products used.

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