BONDING +
SEALING +
ENCAPSULATION

Kisling

# 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<br>(EN 12092, Cone-plate-system, MK25) | | |
| Shear rate | 10 s-1 | 110’000 – 130’000 mPa•s |
| | 100 s-1 | 40’000 – 50’000 mPa•s |
| Density at 23°C | | ~ 1.4 g/cm³ |
| Colour | 6200 | White |
| | 6201 | Grey |
| | 6205 | Black |

## Curing properties

| | |
|---|---|
| Application temperature | + 5 – 30°C |
| Skinning time at 23°C/50%rh<br>(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<br>(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/mm² |
| Tensile strength (DIN EN ISO 527)<br>storage 7 days at 23°C/50%rh | ~ 2.8 N/mm² |
| Elongation at break (DIN EN ISO 527)<br>storage 7 days at 23°C/50%rh | ~ 500 % |
| E modulus at 100% elongation and 23°C (DIN EN ISO 527)<br>storage 7 days at 23°C/50%rh | ~ 0.8 N/mm² |
| Tear resistance (DIN ISO 34-1 Type C)<br>storage 7 days at 23°C/50%rh | ~ 20 N/mm |
| Shore-A-hardness (DIN 53505)<br>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.



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