

## TECHNICAL DATA SHEET

Revision date: 30.04.2024

## POLYURETHANE CAR BODY SEALANT

|                          |  |
|--------------------------|--|
| Article number:          | 37511, 37521, 37531  |
| Colour:                  | black, grey, white   |
| Intended use:            | Car refinishing product/ Polyurethane sealant  |
| General characteristics: | <p>Polyurethane car body sealant is a single-component, moisture curing, polyurethane-based sealant material. It forms a flexible and tough joint with very good adhesion on different materials.</p> <ul style="list-style-type: none"><li>▪ easy application with a gun</li><li>▪ cures with the humidity in the air</li><li>▪ paintable</li><li>▪ resistant to mild acids, de-icing salt and solvents</li><li>▪ permanently elastic</li><li>▪ no over joint expansion</li><li>▪ bubble free curing</li></ul> <p><b>Fields of application:</b></p> <p>automotive industry (OEM applications): sealing, seam sealing, simple bonding, vibration reduction and sound deadening measures in crash body repair.</p> <p>construction industry: cement-based building materials, brick, ceramic, marble, glass, wood, galvanized steel, aluminum, and most plastic surfaces.</p> <p>ATTENTION: Cannot be applied on bituminous substrates, natural rubber, EPDM, rubber or on building materials which might bleed oils, plasticizers, or solvents which could attack the sealant.</p> |

## TECHNICAL CHARACTERISTICS

|  |  |
|--|--|
| Chemical base:                                 | polyurethane   |
| Curing mechanism:                              | moisture curing  |
| Specific gravity (DIN 53479):                  | 1.08 ± 0.03 g/cm <sup>3</sup>  |
| Tack free time (25°C, 50% h.r.):               | 50-70 min  |
| Cure rate (25°C, 50% h.r.):                    | 3 mm/24 hours  |
| Elongation at break (ISO 37):                  | >300%  |
| Hardness shore A (ISO 868):                    | 50±5   |
| Tensile strength (ISO 37):                     | >2.5 N/mm <sup>2</sup>   |
| Application temperature:                       | +5°C to +35°C  |
| Temperature resistance:                        | -30°C to +80°C   |
| Density:                                       | 1.08 ± 0.03 g/ml   |
| Compatibility with paints:                     | water based: yes<br>solvent based: test beforehand   |
| Tear propagation resistance (CQP045-1/ISO 34): | 12.58 N/mm   |
| Elastic modulus at 100% (DIN 52455):           | > 0,75 /mm <sup>2</sup>  |
| Chemical resistance:                           | Resistant to: water, seawater, diluted alkalis, cement grout and water dispersed detergent.<br>Not resistant to: alcohols, organic acids, concentrated alkalis and acids, chlorinated (hydrocarbons) fuel. |

### Consumption:

|                     |       |        |       |
|---------------------|-------|--------|-------|
| Joint width         | 15 mm | 20 mm  | 25 mm |
| Joint length/310 ml | 2.6 m | 1.55 m | 1 m   |

## APPLICATION PROCESS

Before use, carefully read and observe the warning texts on the label!

### Processing conditions:

Please only use in an adequate ventilated environment with an ample supply of fresh air. Processing temperature should be at least +5 °C and max. air humidity should not exceed 80%.

### Processing tips:

- The application surface must be solid, clean, dry, and free of dust, oil, and grease.
- Apply a primer if necessary.
- If necessary, rub down metal surfaces before usage.
- It is recommended to clean concrete with a metal brush.

- Allow the substrate to dry after degreasing.
- In cold weather, store the packages at about 20 °C before use.
- Do not apply at a temperature under 5 °C.
- Can be applied by a manual or pneumatic gun.
- After application, it is needed to smooth the joint with soapy water.
- If there is moisture coming from the substrate, it can cause the sealant to bubble.
- There can be slightly colour change in white and grey when exposed to UV rays.
- Maximum depth /width of sealant must not exceed 12 mm; minimum is 5 mm.
- Tools can be cleaned with alcohol or acetone before the sealant has completely cured. After curing, abrasion is necessary.

## ATTENTION

- Opened cartridges should be used in 24h.
- Use an additional 2K primer before applying a solvent-based underbody protection coating on PU sealant.
- Avoid air-entrapment during application.
- Avoid contact with alcohol and other solvent cleaners during cure.

## Overpainting:

Polyurethane car body sealant can be painted after formation of a skin. If the paint requires a baking process, best performance is achieved by allowing the sealant to fully cure first. 2K acrylic based paints are usually suitable. All paints have to be tested by carrying preliminary tests under manufacturing conditions. The elasticity of paints is usually lower than of sealants what could lead to cracking of the paint film in the joint area.

## VOC regulation:

EU limit value: Category B/b 250 g/l

This product contains < 50 g/l

## Shelf life:

15 months in the unopened original container at temperatures between +5°C and +25°C.

Protect from direct sunlight, frost and moisture.

This release replaces all eventually earlier issued versions.

For additional information, not contained in this Technical Data Sheet, please contact the supplier via:

info@chamaeleon-produktion.de

For safety information, please refer to the corresponding Safety Data Sheet.