

PRODUCT TECHNICAL DATA SHEET

ONEisol PU50

Single-component, polyurethane, thixotropic sealant

Product Description

Single-component, polyurethane, thixotropic sealant, moisture curing, for bonding and sealing

Characteristics

- ✓ Elastic sealant capable of movement
- ✓ Adhesion to different surfaces
- ✓ Easy application at temperatures of +5 °C to +40 °C
- ✓ Very good resistance to ageing (UV and humidity)
- ✓ High mechanical strength
- ✓ Operating temperature -40 °C to +90 °C
- ✓ Can be painted over
- ✓ Thixotropic consistency – does not flow

Application Suitability

The product is suitable for:

- ✓ Sealing and bonding of expansion joints
- ✓ Bonding especially in the automotive and maritime industry
- ✓ Bonding of metal bodywork parts
- ✓ Adhesion to most substrates:
 - ✓ Concrete
 - ✓ Glass
 - ✓ Steel
 - ✓ Wood
 - ✓ Anodized aluminium
 - ✓ PVC
 - ✓ Tiles, etc.

Technical Specifications

Dry to touch	(23°C, 50% RH)	30 min	
Cure speed	(23°C, 50% RH)	approx. 4 mm/day	
Density	(21 °C)	1.23 kg/l ± 5%	EN ISO 2811-1
Elongation at break		420%	ISO 8339
Temperature resistance		-40 to 90 °C	
Movement capability		25%	ISO 4624
Modulus at 100% elongation		0.6 N/mm ²	ISO 8339
Hardness (Shore A)	(23 °C)	approx. 50	DIN 53 505
Tensile strength		1.2 N/mm ²	ISO 8339

Application

Substrate Preparation

Joint preparation: the surfaces to be bonded must be clean, dry and free of dust, oil, grease, old sealant and any contaminants that may affect adhesion. Degrease with solvent and blow off the dust with compressed air.

Temperature of the substrate, environment and material: +5 °C min / +40 °C max

Application Instructions

- ✓ Priming: only in case of highly porous concrete; use **ONEbasic**
- ✓ Apply sealant, maximum joint width 40 mm
- ✓ Smooth the surface of the uncured sealant with a spatula
- ✓ Clean excess uncured sealant with thinner (e.g. xylene)
- ✓ Cured sealant can only be cleaned mechanically

Tool Cleaning and Environmental Protection

Clean tools immediately after application with acetone, xylene or thinner ONEisol-S. The cured material can only be removed mechanically. Avoid contamination of the environment.

Packaging and Storage

Packaging: cartridge 310 ml (25 pcs), sausage 600 ml (15 pcs)

Colours: white, grey, black

Storage: +5 °C to +30 °C

Shelf life: 9 months in original, unopened and undamaged packaging from date of manufacture

Safety Regulations and Protective Measures

Safety instructions and applicable OSH regulations of the relevant authorities must be observed when handling. Use protective clothing, goggles and gloves during application. Detailed information on hygiene, occupational safety and environmental protection is provided in the Safety Data Sheet.

Legal Notice

The information, especially the handling and application instructions for our products, is based on our knowledge of the development and application of chemical products and our many years of application experience under standardized conditions and proper storage and use. In view of the different preparation conditions, external influences of varying nature and the characteristics of the substrates, following the above information or other written or oral recommendations may not always guarantee a satisfactory work result. The client/contractor must test the products to ensure that they are suitable for the intended application.