

Soudaseal 640

Product description

Soudaseal 640 is a high quality, neutral, elastic, 1-component construction joint and adhesive sealant based on SMX Hybrid Polymer.

Properties

- Fast curing
- Permanently elastic after curing
- No bubble formation within sealant in high temperature and humidity applications
- Good weather and UV resistance
- Excellent resistance to many chemicals
- Can be painted with all water based paints and many other systems (to be tested)
- Free of solvents and isocyanate
- Excellent adhesion to most common materials (except PE, PP, PTFE, PVC, glass and bituminous materials)

Applications

- Supple bonding and sealing in vibrating constructions in car bodies, caravans and containers.
- Also bonding of upright parts.
- Bonding of container elements, car body parts, wheel arch extensions, etc...
- Replaces the traditional weld or spot weld.

Technical data

Base	SMX Hybrid Polymer	
Consistency	Stable paste	
Curing system	Moisture curing	
Skin formation	15 minutes	
Curing speed	2 mm/24h → 3 mm/24h	
Density	1,68 g/ml	
Maximum allowed joint movement	ISO 11600	± 20 %
Elasticity modulus	ISO 37	0,90 N/mm ²
Elastic recovery	ISO 7389	> 75 %
Elongation at break	ISO 37	> 650 %
Maximum tension	ISO 37	2,00 N/mm ²
Hardness	ca. 45 ± 5 Shore A	
Shear strength	> 1,4 MPa (Measured on AlMgSi1, 2 mm paste thickness and 10mm/min test speed)	
Application temperature	+5°C → +35°C	
Temperature resistance	-40°C → +90°C	

Footnote: Skinning time and curing speed may vary depending on environmental factors such as temperature, moisture, and type of substrates.

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Substrates

■ Substrate types

Soudaseal 640 has a good adhesion to following substrates: all metals, epoxy coatings, polyester. Soudaseal 640 has no good adhesion or is not suitable for PE, PP, PTFE (Teflon®), bituminous substrates, copper or copper containing materials such as bronze and brass. We recommend a preliminary adhesion test on any substrate.

Application method

■ Application method

Apply Soudaseal 640 with a manual- or pneumatic caulking gun.

■ Cleaning method

Clean with Soudal Surface Cleaner or with Soudal Swipex Wipes, immediately after use.

■ Finishing method

Finish with a soapy solution or Finishing Solution before skinning.

■ Repair method

Repair with Soudaseal 640.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.

Packaging/Logistics

Colour: Please consult the product catalogue, the Soudal website or a Soudal representative.

Packaging: Please consult the product catalogue, the Soudal website or a Soudal representative.

Shelf life: 12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C

Remarks

- Soudaseal 640 may be overpainted with water based paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- When painted with oxidative drying paints disturbances in the drying of the paint may occur (we recommend to do a compatibility test before application).
- Remove all traces of soap (tooling) because it will harm the adhesion of the paint onto the sealant.
- Soudaseal 640 can discolour under the influence of high UV stress and in dark spaces.

This technical data sheet replaces all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. It is general in nature and does not constitute any liability. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application. In every case it is recommended to carry out preliminary experiments. The manufacturer reserves the right to modify products without prior notice.