



Soudaseal 240FC

Product description

Soudaseal 240FC is a high quality, neutral, elastic, 1-component construction joint and adhesive sealant based on SMX Hybrid Polymer.

Properties

- Very good adhesion on many materials, even if slightly moist
- Good mechanical characteristics
- High elasticity
- Movement accomodation up to $\pm 20\%$
- Impervious to mould, contains biocide with fungicidal action
- Good extrudability, even at low temperatures
- Non staining on natural stone
- Non-staining at joint edges
- No hydrophobic effect on natural stone
- No bubble formation within sealant in high temperature and humidity applications
- Good weather resistance
- Good UV resistance
- Solvent-free
- Can be painted with water based systems



Applications

- Bonding in building and metal industry.
- Strong elastic bonding in vibrating constructions.
- Sanitary applications
- Sealing of floor joints
- Connection joints in sheet metal fabrication
- Sealing of airconditioning systems.
- Bonding of security and safety glass
- Supple bonding in car bodies, caravans and containers.

Technical data

Base	SMX Hybrid Polymer	
Consistency	Stable paste	
Curing system	Moisture curing	
Skin formation	ca. 10 minutes	
Curing speed	2 mm/24h $\rightarrow$ 3 mm/24h	
Density	ca. 1.67 g/ml	
Maximum allowed joint movement	$\pm 20\%$	
Elasticity modulus	ISO 37	ca. 1.10 N/mm ²
Elastic recovery	ISO 7389	> 60%
Elongation at break	ISO 37	ca. 750 %



Soudaseal 240FC

Maximum tension	ISO 37	ca. 2.00 N/mm ²
Hardness		ca. 45 ± 5 Shore A
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.

Substrates

- **Substrate condition**
The surface must be rigid, clean, dry, free of dust and grease.
- **Substrate preparation**
Porous surfaces in water loaded applications should be primed with Primer 150. Prepare non-porous surfaces with a soudal activator or cleaner (see technical data sheet). The surfaces should be degreased before bonding them together. While producing plastics very often releasing agents, processing aids and other protective agents (like protection foil) are used. These should be removed prior to bonding or sealing. For optimum adhesion the use of Surface Activator is recommended.
- **Substrate types**
Soudaseal 240FC has a good adhesion to following substrates: all usual building substrates, lacquered wood, steel, AlMgSi1, electrolytic galvanized steel, AlCuMg1, flame galvanised steel, AlMg3, steel ST1403, polystyrene, polycarbonate, PVC, ABS, polyamide, PMMA, fiberglass reinforced epoxy, polyester. Soudaseal 240FC 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. Bonding plastics like PMMA (e.g. Plexi® glass), polycarbonate (e.g. Makrolon® or Lexan®) in stress loaded applications can give rise to stress cracking and crazing in these substrates. The use of Soudaseal 240FC is not recommended in these applications. We recommend a preliminary adhesion and compatibility test on every surface.

Application method

- **Application method**
Apply the product with a manual, pneumatic or accu caulking gun.
- **Cleaning method**
Clean with White Spirit or Soudal Surface Cleaner immediately after use (before curing).
- **Finishing method**
With Finishing Solution before skinning.
- **Repair method**
Repair with the same material.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.
Keep the area well ventilated during use and curing of the product.
Dangerous. Respect the precautions for use.

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, Once opened the product has only a limited shelf life.

Standards and certificates

- Tested according to ISO 16938-1 (Testing for staining on natural stone by sealants)

Soudaseal 240FC

- EC1 Plus label: very low emission
- Declaration of compliance ISEGA - Tested for use in foodstuffs-related area.

Joint dimensions

- Min. width for bonding: 2 mm
- Min. width for joints: 5 mm
- Max. width for bonding: 10 mm
- Max. width for joints: 30 mm
- Min. depth for joints: 5 mm
- Recommendation sealing jobs: joint width = 2 x joint depth.

Environmental clauses

- Leed regulation: Soudaseal 240FC conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

Remarks

- Soudaseal 240FC is paintable with most waterbased paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- The drying time of alkyd resin based paints may increase.
- Soudaseal 240FC can be applied to a wide variety of substrates. Due to the fact that specific substrates such as plastics, like polycarbonate , etc., may differ from manufacturer to manufacturer, we recommend a preliminary compatibility test.
- Soudaseal 240FC can not be used as a glazing sealant.
- Soudaseal 240FC can be used for bonding of and sealing on natural stone.
- When applying, make sure not to spill any sealant on the surface of materials next to the joint. Using tape on the surface next to the joint can prevent this.
- The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits or soap residues will stimulate the development of fungi.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Not suitable for bonding aquariums.
- Do not use in applications where continuous water immersion is possible.
- Discoloration of the product due to chemicals, high temperatures, UV-radiation may occur.
- Contact with bitumen, tar or other plasticizer releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discoloration and loss of adhesion.

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.