

Soudaflex 45FC PRO

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Technical data

Basis	Polyurethane
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 40 min
Curing speed * (23°C/50% R.H.)	3 mm/24h
Hardness**	36 ± 5 Shore A
Density	1,24 g/ml
Elastic recovery (ISO 7389)**	> 80 %
Maximum allowed distortion	± 20 %
Max. tension (ISO 37)**	1,25 N/mm ²
Elasticity modulus 100% (ISO 37)**	0,82 N/mm ²
Elongation at break (ISO 37)**	> 800 %
Temperature resistance**	-30 °C → 90 °C
Application temperature	5 °C → 35 °C

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. ** This information relates to fully cured product.

Product description

Soudaflex 45FC PRO is a high quality, neutral, elastic, 1-component construction joint and adhesive sealant based on polyurethane.

Packaging

Colour: white, black, concrete grey
Packaging: 600 ml sausage

Properties

- Very easy to apply
- High modulus
- Excellent resistance to UV radiation
- Bubble-free curing
- Permanently elastic after curing
- Very good adhesion on many materials
- Can be painted with most types of paint systems.
- Excellent resistance to many chemicals

Shelf life

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

Chemical resistance

Resistant to intermittent exposure to salt water, detergents, fuels, oils, weak acids and bases (preliminary test required). Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Applications

- All sealing and bonding applications in the building industry.
- Connection joints between window- and doorframes and walls.
- Interior and exterior floor joints
- Bonding of roof tiles.
- Expansion joints between many different construction materials.
- Structural bondings in vibrating constructions.

Substrates

Substrates: all usual building substrates, metals, ...

Nature: rigid, clean, dry, free of dust and grease.

Surface preparation: Soudaflex 45FC PRO has a good adhesion to most substrates. However, for optimal adhesion and in critical applications, such as joints exposed to extreme weather conditions, high- or water-loaded joints, we recommend to follow a pre-treatment procedure. Apply Primer 100 on

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porous substrates. Always use Primer 100 on natural stone. Prepare non-porous surfaces with a Soudal activator or cleaner (see Technical Data Sheet).

There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion and compatibility test on every surface.

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.

Application method

Apply the product by means of a manual-, battery- or pneumatic- caulking gun. Apply Soudaflex 45FC PRO evenly without air inclusions into the joint. Smoothen the joint with a finger or a spatula with the help of finishing solution. Avoid that soapy solution comes between the joint edges and sealant (to prevent adhesion loss).

Application method: With a manual, pneumatic or accu caulking gun.

Cleaning: Clean with Soudal Surface Cleaner or with Soudal Swipex, immediately after use Cured Soudaflex 45FC PRO can only be removed mechanically.

Finishing: With a soapy solution or Soudal Finishing Solution before skinning.

Repair: With the same material.

Health- and Safety Recommendations

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

Remarks

- When painted with oxidative drying paints disturbances in the drying of the paint may occur (we recommend to do a compatibility test before application).

- Soudaflex 45FC PRO has a good UV resistance but can discolour under extreme conditions or after very long UV exposure.
- Do not use in applications where continuous water immersion is possible.
- Do not use on polycarbonate.
- Soudaflex 45FC PRO can not be used as a glazing sealant.
- Not suitable for bonding aquariums.
- 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 discolouration and loss of adhesion.
- Do not apply or allow to cure in the presence of uncured silicone sealants, alcohol - or other solvent cleaners.
- Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in color does not affect the technical properties of the product.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.

Environmental clauses

Leed regulation:

Soudaflex 45FC PRO 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.

Liability

The content of this technical data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.

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