

Soudal SMX506

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Technical data

Basis	SMX Hybrid Polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 20 min
Curing speed * (23°C/50% R.H.)	2 mm/24h
Hardness**	25 ± 5 Shore A
Density	1,45 g/ml
Elastic recovery (ISO 7389)**	> 70 %
Maximum allowed distortion	25 %
Max. tension (ISO 37)**	0,85 N/mm ²
Elasticity modulus 100% (ISO 37)**	0,40 N/mm ²
Elongation at break (ISO 37)**	> 500 %
Temperature resistance**	-40 °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

Soudal SMX506 is a high quality, neutral, elastic, 1-component glazing sealant based on SMX-Polymer. Soudal SMX506 is approved according to ISO 11600 G 25 LM.

(eg. SGG Bioclean® and Pilkington Activ Glass™).

Properties

- Excellent adhesion on nearly all surfaces, even if slightly moist.
- Can be painted wet-on-wet with waterborn paints
- Does not contain solvents, isocyanates, acids, halogens and toxic components, completely neutral.
- Easy to use and apply, also under difficult circumstances.
- No bubble formation within sealant in high temperature and humidity applications.
- high shear strength after full cure (no primer)
- Easy to tool and finish with soapy water
- Colourfast and UV resistant
- Minimum health and safety considerations

Applications

- Glazing joints between glass and window: wood, aluminium, steel or PVC. Specially developed for use on self cleaning glass

Packaging

Colour: white, black, other colors on request
Packaging: 290 ml cartridge, 600 ml sausage, other packaging on request

Shelf life

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

Chemical resistance

Good resistance to (salt)water, aliphatic solvents, hydrocarbons, ketones, esters, alcohols, diluted mineral acids and alkalis. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Substrates

Substrates: all glazing substrates, treated wood, PVC, ...

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

Surface preparation: Prepare non-porous surfaces with a Soudal activator or cleaner (see Technical Data Sheet).

Remark: 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. 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. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

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Certain paints and textured coatings on aluminum profiles can influence the adhesion. We recommend a preliminary adhesion test on any substrate. Not suitable for PE, PP, PTFE (eg Teflon®), bituminous substrates, copper or copper-containing materials such as bronze and brass. We recommend a preliminary adhesion and compatibility test on every surface.

Application method

Installation guidelines of resp. glass manufacturers should always be respected

Application method: With manual- or pneumatic caulking gun.

Cleaning: Clean with White Spirit or Soudal Surface Cleaner immediately after use (before curing).

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

- Soudal SMX506 may be painted, 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.
- Remove all traces of soap (tooling) because it will harm the adhesion of the paint onto the sealant.
- The use of metal spatula or other hard tooling equipment on self-cleaning glass is not recommended in order to prevent the damaging of the active layer of the glass.
- We recommend the use of Soudaseal 215 LM for all perimeter joints (between wall and window profiles) in applications where Self-cleaning glass is used.

- Do not use Soudal SMX506 in applications where continuous water immersion is possible. Therefore a min. inclination of 10° of the surface is required.
- Self-cleaning-glass: Soudal SMX506 allows a primerless application on self-cleaning-glass. (e.g. Activ Glass by Pilkington and Bioclean by Saint-Gobain Glass). All naturally and accelerated weathering tests performed up till now show an excellent compatibility and adhesion of the product on the self-cleaning-glass. Our growing experience with this type of glass will also allow for a more accurately predicted long-term functionality of the product onto this type of glass.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in color does not affect the technical properties of the product.
- 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.

Standards and certificates

- DIN EN ISO 11600 G 25LM Bioclean - Activ Glass (IFT Prüfbericht 504 34673)
- ISO 11431 on SGG Bioclean® and Activ Glass™ (IFT Prüfbericht 504 28498/3)

Environmental clauses

Leed regulation:

Soudal SMX506 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.

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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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