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**SMX<sup>®</sup> 506**

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**Revision: 06/08/2009****Page 1 of 2****Technical Characteristics:**

Base	SMX <sup>®</sup> - technology
Consistency	Paste
Curing System	Moisture Cure
Skin Formation (*) (20°C/65% R.V.)	Ca. 20 min.
Curing Rate (*) (20°C/65% R.V.)	2 mm/24h
Hardness (DIN 53506)	25 ± 5 Shore A
Specific Gravity (DIN53479)	1,45 g/mL
Elastic recovery (ISO 7389)	> 70 %
Maximum Deformation	20 %
Temperature Resistance (fully cured)	-40°C to +90°C
Elasticity Modulus 100 % (DIN 53504)	0,40 N/mm <sup>2</sup>
Tear Strength (DIN 53504)	0,85 N/mm <sup>2</sup>
Elongation at break (DIN 53504)	>500 %

(\*) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates

**Product:**

Soudal SMX<sup>®</sup> 506 is a high quality single component glazing sealant with high adhesive strength. It is based on SMX<sup>®</sup> - technology, chemically neutral and fully elastic and has been approved according to ISO 11600 G 25 LM.

**Characteristics:**

- High bond strength on nearly all surfaces
- Can be painted with most water based paints (see remarks)
- Excellent adhesion on glass, wood, metal and PVC
- Ecological advantages – free from isocyanates, solvents, halogens and acids
- Flexible elastic rubber – movement accommodation up to 20%
- Straightforward application even in adverse conditions
- No bubble formation within sealant (in high temperature and humidity applications)
- Primerless adhesion on many substrates (consult our Technical Service for more details)
- Easy to tool and finish with soapy water
- Good extrudability even at low temperatures
- Colour stable and UV resistant
- Minimal health and safety considerations

**Applications:**

Glazing sealant between glass and all usual frame materials: timber, aluminium, steel, PVC. Specially developed for use on self-cleaning glass (Bioclean<sup>®</sup> and Activ Glass<sup>®</sup>)

**Packaging:**

*Colour:* black

*Packaging:* cartridge 290mL, foil bag 600ml

**Shelflife:**

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

**Resistance to chemical agents:**

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis

Poor resistance to aromatic solvents, concentrated acids, chlorinated hydrocarbons

Remark: 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. In every case it is recommended to carry out preliminary experiments.

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**Substrates:**

*Nature:* clean, dry and free of dust and grease

*Priming:* Surface Activator may be used on non-porous surfaces. Surface Activator may improve adhesion on metal substrates like (coated) aluminium. A preliminary test on this substrate is recommended.

We recommend preliminary compatibility tests prior to application

For instructions on the installation and use of this product on self-cleaning glass please consult the installation instructions of the concerned glass manufacturers

**Application:**

*Method:* Manual- or pneumatic caulking gun

*Application temperature:* +5°C until +35°C

*Cleaning:* White Spirit or Surface Cleaner immediately after application and before curing

*Tooling:* can be tooled with soapy solution before skin formation

*Repair with:* Same material

**Health- and Safety Recommendation:**

Apply the usual industrial hygiene  
See packaging for more information

**Remarks:**

- Soudal SMX<sup>®</sup> 506 can be painted with water based paints. However due to the large number of paints and varnishes available we strongly suggest a compatibility test before application
- 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
- SMX 506 should never be used in applications where stagnant water can occur. We therefore always recommend a minimum pitch of the substrates of 10°

**Self Cleaning Glass:**

Soudal SMX<sup>®</sup> 506 allows for a primer-free application on self-cleaning-glass. (e.g. Activ Glass<sup>®</sup> by Pilkington and Bioclean<sup>®</sup> 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

**Norms:**

Soudal SMX 506 has been tested and approved according to:

- ISO 11600-G-25LM (IFT Prüfbericht 504 34673)
- ISO 11431 on SGG Bioclean<sup>®</sup> and Activ Glass<sup>®</sup> (IFT Prüfbericht 504 37029/1)

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