

14 February 2024

## MULTIBOND SMX25 Flex & Seal

### Technical Data

Basis	SMX® Hybrid Polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 30 min
Curing speed* (23°C/50% R.H.)	Ca. 3 mm/24h
Hardness**	Ca. 25 ± 5 Shore A
Density	Ca. 1.55 g/mL
Maximum allowed distortion (ISO 11600)	± 25%
Max. tension (ISO 37)**	Ca. 0.95 N/mm <sup>2</sup> (MPa)
Elasticity modulus 100% (ISO 37)**	Ca. 0.50 N/mm <sup>2</sup> (MPa)
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

Multibond SMX25 Flex & Seal is high quality, neutral, elastic, one component sealant based on the unique SMX® Hybrid Polymer technology developed by Soudal.

### Properties

- Good adhesion on most common building materials.
- Easy to tool, extrude (even at low temperatures) and finish in all weather conditions.
- Phthalate-free
- Stays elastic after curing.
- No odour
- No bubble formation within sealant in high temperature and humidity applications.
- Primerless application on many substrates (except where water pressure may occur)
- Can be painted with water based systems
- Good weather and UV resistance
- Solvent, halogen, acid and isocyanate free.

### Applications

- Expansion and connection joints in the building industry: sealing of joints in prefabricated buildings, sealing between window and door frames,...

- Applications where the sealant needs to be overpainted with water based paints and varnishes

### Packaging

*Colour:* white, off white, black, grey, beige, concrete grey, dark grey, redwood

*Packaging:* 290 mL cartridge, 600 mL sausage

### Shelf life

12 months in original, unopened packaging in a cool and dry storage place with temperature 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 usual building substrates, brick, concrete, metals, treated timber, PVC, plastics, ...

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

*Surface preparation:* Multibond SMX25 Flex & Seal 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

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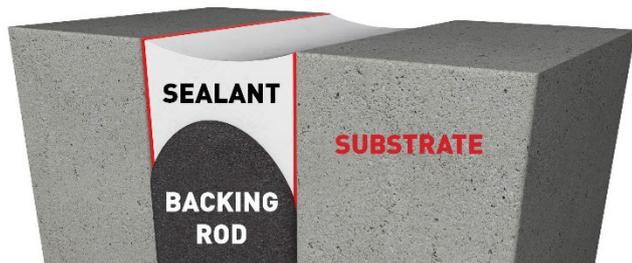
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pretreatment procedure. Prepare non-porous surfaces with a Soudal **Surface Activator** or cleaner (see Technical Data Sheet). Porous surfaces should be primed with Soudal **Primer 150**.

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.

### Recommended joint dimensions

	JOINT		BONDING
	Width	Depth	Width
Min	5 mm	5 mm	NA
Max	30 mm	15	NA
<i>Recommendation for sealing: ½ width = depth</i>			



### Application method

Apply the product with high thrust-ratio caulking gun. Smoothen the joint with 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 manual- or pneumatic caulking gun.

*Cleaning:* Clean with Soudal Surface Cleaner or with Soudal **Swipex**, immediately after use. Cured Multibond SMX25 Flex & Seal 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. Use only in well-ventilated areas.

### Remarks

- Multibond SMX25 Flex & Seal 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.
- The drying time of alkyd resin based paints may increase.
- Multibond SMX25 Flex & Seal cannot be used as a glazing sealant.
- Multibond SMX25 Flex & Seal is non-staining and suitable for sealing on natural stone on condition the joint dimensions and joint movement are respected.
- Avoid permanent pressure on the sealant.
- When applying, make sure not to spill any sealant on the surface of materials. Taping the surface around the joint can prevent this.
- A total absence of UV can cause a colour change of the sealant.
- 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.
- Multibond SMX25 Flex & Seal has a good UV resistance but can discolour under extreme conditions or after very long UV exposure.
- Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in colour 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

- U.S.: ASTM C920 type S, grade NS class 25.
- AU: WaterMark WMTS-014:2016 Licence: WM-023300

### Environmental clauses

*Leed regulation:*

Multibond SMX25 Flex & Seal conforms to the

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## **MULTIBOND SMX25 Flex & Seal**

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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