Multibond SMX35

Technical data

Basis	SMX Hybrid Polymer
Consistancy	Stable paste
Curing system	Moisture curing
Skin formation* (20°C / 65% R.H.)	Ca. 10 min
Curing speed * (20°C / 65% R.H.)	2 mm/24h → 3 mm/24h
Hardness	40 ± 5 Shore A
Density	1,60 g/ml
Elastic recovery (ISO 7389)	> 75 %
Maximum allowed distortion	± 20 %
Max. tension (DIN 53504)	1,50 N/mm²
Elasticity modulus 100% (DIN 53504)	0,80 N/mm²
Elongation at break (DIN 53504)	400 %
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.

Product description
Multibond SMX35 is a high quality, neutral, elastic, one component adhesive sealant based on SMX Polymer.

Properties
- Good extrudability
- Stays elastic after curing and very sustainable
- Impervious to mould, contains ZnP (biocide with fungicidal action)
- Very low emmission, EC1 PLUS R certified
- Excellent adhesion on nearly all surfaces, even if slightly moist.
- Can be painted with water based systems
- No odour.
- Does not contain solvents, isocyanates, acids, halogens and toxic components, completely neutral.
- Good weather and UV resistance

Applications
- Sealing and bonding in the building and construction industry.
- Strong elastic bonding in vibrating constructions.
- Sealing and bonding in the building and construction industry.
- Joints in bathrooms and kitchens.
- Sanitary applications.

Packaging
Colour: white, grey, concrete grey, black, beige
Packaging: 290 ml cartridge, 600 ml sausage

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.

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Substrates
Substrates: all usual building substrates, treated wood, PVC, plastics
Nature: clean, dry, free of dust and grease.
Surface preparation: Porous surfaces in water loaded applications should be primed with Primer 150. All smooth surfaces can be treated with Soudal Surface Activator. The surfaces should be degreased before bonding them together.
We recommend a preliminary adhesion test on every surface. Multibond SMX35 has an excellent adhesion on most common substrates: all usual building substrates, treated wood, PVC, plastics. Multibond SMX35 has been tested on the following metal surfaces: steel, AlMgSi1, brass, electrolytic galvanised steel, AlCuMg1, flame galvanised steel, AlMg3 and steel ST1403. Multibond SMX35 also has a good adhesion on plastics: polystyrene, polycarbonate (Makrolon®), PVC, ABS, polyamide, PMMA, fiberglass reinforced epoxy, polyester. 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. For optimum adhesion the use of Surface Activator is recommended. NOTICE: 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 Multibond SMX35 is not recommended in these applications. There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion test on any substrate.

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
Application method: With manual- or pneumatic caulking gun.
Cleaning: With Fix ALL Cleaner immediately after use.
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 for more information.

Remarks
- Multibond SMX35 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.
- There is a risk for staining on porous surfaces such as natural stone.
- Multibond SMX35 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 preliminary compatibilty test.
- Multibond SMX35 can not be used as a glazing sealant.
- A total absence of UV can cause a color change of the sealant.
- The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits or soap remainigs will stimulate the development of fungi.

Environmental clauses
Leed regulation:
Multibond SMX35 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.