



Multibond SMX50 is a high quality, fast curing, single component flexible adhesive and sealant with high adhesive strength. Perfect for internal & external applications. Based on SMX® Polymer Multibond SMX50 has a “Shore A” hardness of 40 ideal for trafficable joints and can accommodate movement of ± 20%. Multibond SMX50 has excellent UV resistance, elasticity and can be sanded and painted with most types of paint. Once cured forms a strong, flexible, waterproof seal and bonds to the widest range of substrates see below. Multibond SMX50 can be used for damp and wet surfaces.

Features & Benefits

- Fast curing
- Sealing & bonding
- Internal & external
- Trafficable
- UV Resistant

Applications

Multibond SMX50 is ideal for a wide range of bonding and sealing applications in construction and industrial.

Technical data

Basis	SMX Hybrid Polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 10 min
Curing speed * (23°C/50% 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 (ISO 11600)	± 20 %
Max. tension (ISO 37)**	1,50 N/mm ²
Elasticity modulus 100% (ISO 37)**	0,80 N/mm ²
Elongation at break (ISO 37)**	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. ** This information relates to fully cured product.

Product description

Trade Multibond SMX50 is a high quality, neutral, elastic, one component adhesive sealant based on SMX Polymer.

Properties

- Good extrudability
- Stays elastic after curing and very sustainable
- 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.

Shelf life

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

Substrates

Substrates: all usual building substrates, treated wood, PVC, plastics
 Nature: rigid, clean, dry, free of dust and grease.
 Surface preparation: Porous surfaces in water loaded applications should be primed with Primer 150. Prepare non-porous surfaces with Soudal primer or cleaner (see Technical Data Sheet). The surfaces should be degreased before bonding them together. We recommend a preliminary adhesion test on every surface. Trade Multibond SMX50 has an excellent adhesion on most common substrates: all usual building substrates, treated wood, PVC, plastics. Trade Multibond SMX50 has been tested on the following metal surfaces: steel, AlMgSi1, brass, electrolytic galvanised steel, AlCuMg1, flame galvanised steel, AlMg3 and steel ST1403. Trade Multibond SMX50 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, rocessing aids and other protective agents



(like protection foil) are used. These should be removed prior to bonding or sealing. 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 Trade Multibond SMX50 is not recommended in these applications. 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.

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.