

TECHNICAL DATASHEET

MS 55 Self-Leveling Sealant Adhesive

MS 55 Self Leveling Sealant Adhesive is a one-component elastic sealant based on innovative hybrid technology, that cures with atmospheric moisture producing flexible and resistant rubber for sealing joints.

It is flowable and self-leveling, neutral and odorless curing, does not contain solvents, silicones or isocyanates. It preserves all properties of elasticity and adherence with no ageing, remaining stable.

Field of applications

MS 55 SL is suitable for horizontal expansion joints which require flexibility and abrasion resistance for both indoor and outdoor applications.

It is used for sealing ground joints in transportation, warehouses, pedestrian streets, bridges, joints of bricks, floor tiles, etc.

For filling and sealing concrete joints, for sealing and repairing joints in concrete slabs, for sealing very narrow and difficult to reach horizontal joints.

Benefits

Flowable and self-leveling, easy to apply, does not require smooting, Silicone, isocyanates and solvent free. Non-corrosive

Fast curing with no shrinkages

High hardness and resistance. Passable

High modulus and excellent mechanical properties

Excellent adhesion to a wide range of material without priming, even on humid and damp surfaces

Excellent UV-, ozone, weather and ageing resistance

Good chemical resistance to saline solutions, hydrocarbons, common detergents and mineral oils.

Permits painting with water-based paints and many other systems

Application conditions

Application temperature between +41°F and +104°F. The application temperature of the sealant must be +68°F - +77°F.

The application at temperatures lower than +41°F, can only be carried out when connected surfaces are free of condensation, snow and ice. The surfaces must be clean from dust, loose particles and oil.

Technical Data

Basis:		Hybrid polymers
Consistency:		Thixotropic paste
Specific gravity:	<i>(ISO 2811-1)</i>	Approx. 1,38 g/ml
Tack free time:	<i>(OQ.06-internal)</i>	Approx. 10-15 minutes (at 74°F; 50% R.H.)
Skin forming time:	<i>(OQ.16-internal)</i>	Approx. 15-20 minutes (at 74°F; 50% R.H.)
Curing rate:	<i>(OQ.18-internal)</i>	Approx. 3 mm/24 h 0.12in/24h
Shore A hardness:	<i>(ISO 7619-1)</i>	Approx. 55
Application temperature:		Between +41°F to +104°F
Service temperature:		-22°F to +186°F

Tensile properties:

ISO 37 (2mm thickness, S2 dumbbells, 7 days 23°C;50% R.H.)

E-Modulus 100%	1,00 MPa
Tensile strength	1,10 MPa
Elongation at break	125 %

Application instructions

Cleaning and joint preparation: substrates must be clean and free of dust, grease and other contaminants, which may affect adhesion.

Primer: MS 55 SL adheres to most common construction materials without primer. However, a preliminary adhesion test is recommended on every surface.

Sealant application: After substrate preparation apply the sealant with a professional caulking gun, evenly.

Tooling and finishing: as a self-leveling product it does not need smoothing after application.

Uncured product may be easily removed with solvents such as isopropyl alcohol or 'white spirit'.

Cured sealant must be removed mechanically.

REMARKS: Joints must be protected from traffic until curing is complete.

Do not use MS 55 SL on bituminous substrates or building materials which might bleed oils, plasticizers or solvents (such as natural rubber, chloroprene, EPDM, etc)

Test adhesion to PE, PP, PTFE (Teflon). Due to the wide variety of possible substrates we recommend a preliminary compatibility test.

Paintability: Due to the large number of paints and varnishes available we strongly recommend a compatibility test before application.

Not intended for structural glazing or bonding.

Cleaning

Clean uncured sealant with solvents like white spirit, acetone. Cured sealant can be removed mechanically.

Color

White, grey, other colors available upon request

Package

600 ml sausage, 20 pcs in a box. 1860 cartridges per pallet, 1200 sausages per pallet

Storage conditions

Guaranteed storage time 18 months starting from the date of manufacture if stored in a closed original package in a dry place between +41°F and +77°F.

Safety Regulations

Ensure sufficient ventilation during application. Keep out of the reach of children. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with water and seek medical advice. Detailed safety information is available on safety data sheet (SDS).