

Version 1

TECHNICAL DATA SHEET

MS50 Industrial Hybrid Sealant

One-component, permanently elastic, fast curing sealant, based on hybrid-polymer. It cures in the presence of moisture and is suitable for indoor and outdoor applications. Completely weather and UV radiation resistant. Preserves excellent elasticity and adhesion in exterior and interior environment. The sealant is neutral, odourless and environmentally friendly. Easy to apply, even in adverse conditions and low temperatures.

- High performance mechanical properties.
- Fast curing and nearly no shrinkage.
- Excellent adhesion to a wide range of porous and non-porous substrates.
- Non- corrosive to metals.
- Environmentally friendly, does not contain solvents, silicones or isocyanates.
- Cured sealant can be overpainted with water based paints.

Fields of application

Multipurpose sealing and bonding in the building sector, even onto humid and damp surfaces. Connection of low movement wall joints (horizontal and vertical), e.g. joints between window or door frames and brickwork, for stairs, balconies, etc. Installing (bonding and sealing) of windowsills, skirting boards, covering boards, etc. Joints in ventilation and air-conditioning ductwork.

Bonding in vibrating constructions (vehicle body, containers, metal-to-metal, etc.). Elastic bonding and sealing in many different industrial applications.

Technical classifications and certificates

Sealant for facade for interior and exterior application, intended for use in cold climate.
EN 15651-1:2012: Type F-INT-EXT-CC: CLASS 20HM

Application conditions

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

Application instructions

The surfaces must be clean from dust, loose particles and oil. Non-porous surfaces should be cleaned with solvent and a clean, non-fluffy cotton cloth. Solvent rests should be removed before evaporating with a clean cloth.

600 ml foil package: Open the application nozzle of the gun, insert the package in the gun and open the applicator side by removing the fastening clamp. Place the applicator nozzle on the opened end and screw on the cap.

Apply sealant in the joint by repeatedly and evenly pressing on gun trigger and smoothly dragging the nozzle along the joint. After application, smooth the surface with a rubber silicone scraper and remove excess material.

Cleaning

Uncured sealant, tools and hands can be cleaned with special cleaning wipes.
Cured sealant can be removed mechanically by using silicone remover for softening the sealant.
Clean the surface with sponge and water.

Technical data

Properties	Unit	Value
Type		hybrid polymer
Skin forming time	minute	30-45
Curing time	mm/24 h	2-3
Density	g/cm ³	1,52
Resistance to flow, (ISO 7390)	mm	0
Properties of cured sealant		
Movement capability, (ISO 11600)	%	± 20
Elongation at break, (ISO 37)	%	200
Tensile strength, (ISO 37)	N/mm ²	2,0
Modulus at 100% elongation, (ISO 37)	N/mm ²	1,4
Hardness (Shore A)		approx. 50
Service temperature	°F	-40 to +194

The parameters indicated have been measured at +23 °C and 50% relative air humidity.

Colour

White, grey

Package

600 ml sausage, 290ml cartridge

Storage conditions

Guaranteed storage time 18 months starting from the date of manufacture if stored in a closed original package in a dry place and protected from direct sunlight at temperatures between +41 °F and +86 °F.

Limitations

Do not use as a glazing sealant, on bituminous substrates or on building materials which might bleed oils, plasticizers or solvents (e.g. natural rubber, chloroprene, EPDM, ...).

Due to the wide variety of possible substrates, we recommend a preliminary compatibility and adherence test. If necessary, prime surfaces to improve adhesion.

Paintability: Cured sealant can be overpainted with water based paints. Due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.

Safety regulations

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.

Cured sealant can be handled without any danger to health.

Detailed safety information is available on safety data sheet (SDS).

Note: The instructions in the present documentation are based on tests carried out by the manufacturer and are presented in good faith. Due to variations in materials and substrates as well as the various application possibilities that are beyond our control, the manufacturer is not liable for the results achieved. In any case, it is recommended to test the product suitability at the place of application. Manufacturer reserves the right to modify products without prior notice.

This TDS replaces and supersedes all previous data sheets on the same product.