

## TECHNICAL DATASHEET

# MS 45 Hybrid Sealant Adhesive

Single component elastic hybrid adhesive based on hybrid polymer that cures due to air humidity. Sealant is silicone, isocyanate, solvent and odor free. Great adhesion and paintability with acrylic paints. Great adhesion to most building materials such as aluminium, galvanized steel, copper, glass, PVC, concrete, wood, bricks and wet substrates. Stable, elastic, suitable for transportation, moving joints and uneven surfaces. Excellent resistance to UV, ageing, weathering and chemical resistance: resists fresh, salt and hard water as well as aqueous household agents, spills of hydrocarbons, diluted acids and bases.

### Field of applications

Interior and exterior joining and bonding; transportation, profiles, insulation and decorative panels etc. Establishing permanent connections and sealing surfaces that expand, shrink or move due to environmental conditions by up to 15%. Insulation and sealing of connections, on surfaces where acid-curing silicone or less elastic sealants cannot be used. Sound insulation for equipment in the field of ventilation, sewage, and transportation industry, as well as for audio equipment. Smoothing and insulation of floor and panel joints. To strengthen screw connections.

Product has been tested and is classified accordingly:

Sealant for facade for interior and exterior application, intended for use in cold climate.  
EN 15651-1:2012: Type F-INT-EXT-CC: CLASS 12,5E

Sealant used for sanitary applications.  
EN 15651-3:2012: Type S: CLASS S2

### Application conditions

The surfaces must be clean from dust, loose particles and oil. The surface to be covered must be dry. Application temperature between +41°F and +104°F. Do not use for sealing aquariums and underwater joints.

### Application instructions

Cut off the threaded end of the cartridge and screw on the application nozzle for directing sealant. Cut the threaded end in a way where a suitable opening for application is produced. Place the cartridge together with the applicator in the gun and fill the installation nozzle with adhesive sealant, by repeatedly pressing the gun trigger.

Apply adhesive 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. Apply the sealant to the surface to be connected and immediately press to the substrate. When gluing heavy plates, apply adhesive on both surfaces and use a trowel similar to the one used for applying tile adhesive. Lighter elements should be supported for 2–3 hours, heavy and hanging elements until final curing (curing speed 0.10in/24h).

Avoid contact of the product with asphalt or bitumen. Keep away from alcohol based agents (these block the polymerization). It is up to the users to check the compatibility with the support in terms of adherence,

chemical compatibility and staining. For a clean installation joint, use masking tape before placing the detail. Remove the tape before final curing of the adhesive.

## Cleaning

Uncured sealant can be cleaned with solvent such as acetone. Cured sealant can only be removed mechanically.

## Technical data

Properties	Unit	Value
Tack-free time	minute	10–15
Cure time	in/24 h	0.10-0.12
Density	lbs/ft <sup>3</sup>	97
<b>Properties of cured sealant</b>		
Indentation hardness A scale (Shore A)		50±5
Movement capability (ISO 11 600)	%	15
Elongation at break (ISO 37)	%	150
Elastic recovery, (ISO 7389)	%	≥40
Modulus of elasticity in 100% elongation (ISO 37)	PSI	276
Tensile strength (ISO 37)	PSI	290
Temperature resistance after curing	°F	-40 up to +186

The parameters indicated have been measured at +74°F and 50% relative air humidity.

## Colour

White, grey, graphite grey, agate grey, black, brown.

## Package

280 ml cartridge, 12 pcs in a box. 600 ml foil package, 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 in temperatures +41°F...+86°F.

## Safety regulations

Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with water and seek medical advice. Keep out of the reach of children. Ensure sufficient ventilation during application.

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Wear suitable protective clothing, gloves and eye/face protection.

Cured adhesive 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, we are not liable for the results achieved. It is recommended to test product suitability at the place of application.