

## TECHNICAL DATASHEET

# MS 35 High Modulus Sealant

One-component, high modulus hybrid sealant for sealing waterproofing panels, transportation joints. The sealant cures in the presence of atmospheric moisture to form a durable and flexible rubber.

**MS35** adheres to a variety of porous and non-porous substrates such as concrete, fiber- concrete, bricks, ceramic tiles, different metals, anodized aluminium, wood, melamine, PVC, etc.

- High movement capability ( $\pm 40\%$ ) and high modulus hybrid sealant.
- Excellent adhesion to a wide range of porous and non-porous substrates.
- No shrinkage.
- Permanently elastic.
- Does not contain solvents, silicones or isocyanates.
- Good resistance to UV radiation and moisture.
- Low odor.
- Cured sealant can be painted with water based paints.

### Applications

**MS35** is specially developed for sealing joints in transportation applications. The sealant can be also used to seal joints in concrete, ceramic tiles, hardwood floors and laminated floors. It is suitable for sealing expansion and connection wall joints in buildings, window and door frames, stairs and balconies.

### Application conditions

Application temperature between  $+41^{\circ}\text{F}$  and  $+104^{\circ}\text{F}$ .

### Application instructions

The surfaces must be clean from dust, loose particles and oil. Backer rod can be installed to the joint. The purpose of the backer rod is to ensure correct joint thickness, avoid three-sided adhesion and give the sealant a correct form. The diameter of the Backer Rod should be approximately 25% larger than the joint width. The sealant joint width:depth ratio is in the range from 1:1 to 3:1. The ideal joint has a 2:1 width:depth ratio.

**600 ml sausage:** 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. After removing the old sealant, clean the surfaces with sponge and water.

## Technical data

Property	Unit	Value
Skin forming time	minutes	4-8
Density (uncured)	g/ml	1,36
Curing rate	inch/24 h	0.08-0.12
Resistance to flow, (ISO 7390)	mm	0
<b>Properties of cured sealant</b>		
Temperature resistance	°F	-40 to +194
Movement capability	%	±40
Hardness (Shore A)		approx. 35
<b>Tensile properties</b>		
<b>2 mm thickness- ISO 37</b>		
Modulus at 100% elongation	MPa	0,6
Tensile strength	MPa	3,3
Elongation at break	%	950
<b>12x12x50 mm joint- ISO 8339</b>		
Modulus at 100% elongation	MPa	0,6
Tensile strength	MPa	1,5
Elongation at break	%	>550

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

## Color

Grey, white, brown.

## Package

280 ml cartridge, 12 pcs in a box. 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 +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 test.

Paintability: Sealant can be painted 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).