

MS Polymer Sealant for PVC

Product Description

MS Polymer Sealant is single component sealant based on MS-Polymer, which cures by reaction with moisture to an elastic product. The skin formation and the curing time are dependent on humidity and temperature, and the curing time also depends on joint depth. By increasing the temperature and moisture these time can be reduced; low temperature as well as low moisture retard the process.

MS Polymer Sealant is odourless and free of solvents, isocyanates. It demonstrates good adhesion to many substrates and is compatible with suitable paint systems.

MS Polymer Sealant also demonstrates good UV resistance.

Typical Data

Optic	Black, White, Grey thixotropic paste
Odour	Hardly odourless
Density	Approx. 1.5 g/cm ³
Solids	100%
Curing mechanism	Humidity curing
Skin formation time	Approx. 10min
Cure rate	Approx. 4mm/24h*(23°C, 50%)
Shore A hardness	Approx. 50
Tensile strength	Approx. 2.5 MPa
Elongation to break	Approx. 300%
Volume change	Less than. 2%
Application temperature	5°C to 40°C
In service temperature range	-40°C to 100°C
Short exposure	120°C

Characteristics

- ◆ < 1% VOC
- ◆ Odourless
- ◆ Non-corrosive
- ◆ Primerless adhesion on many substrates
- ◆ High performance mechanical properties
- ◆ Colour stable and UV resistant
- ◆ Ecological advantages – free of isocyanates, solvents, halogens and acids
- ◆ Paintable

Applications

- Elastic bonding of metals and plastics, such as side plates and roof plates in the manufacture of body parts (good adhesion to most rubber species).
- Elastomer, outdoor and indoor gap and joint sealing.
- Suitable for the following fields: car body, train body manufacturing, ship manufacturing, container metal structure, equipment, electrical, air conditioning and ventilation industries.

Adhesion

MS Polymer Sealant has good adhesion to most materials, such as aluminum (polished, anodized), brass, steel plate, stainless steel, glass, ABS, hard PVC and most thermoplastic materials.

The defiler on the plastic must be removed before bonding.

Pretreatment and usage

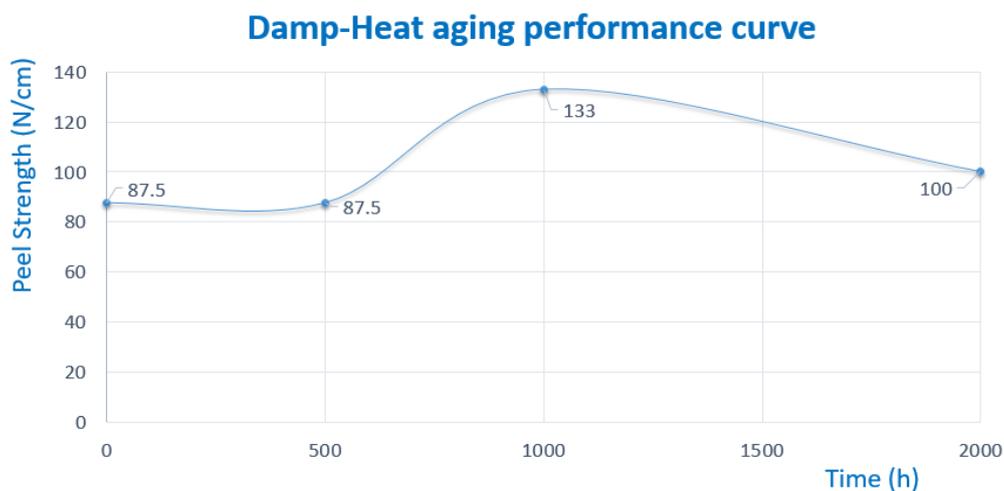
- The substrates must be clean, dry, and free of oil and grease.
- Sausage is made with the corresponding Hand or Air pressure pistols. In case of compressed air application, a pressure of 2-5 bar is required.
- After application, MS Polymer Sealant can be smoothed with soapy water, cured MS Polymer Sealant can only be removed by mechanical method.

Storage

Storage temperature: 8°C -28°C

Shelf life: 12 months under the original packaging

Internal Test in SunMan



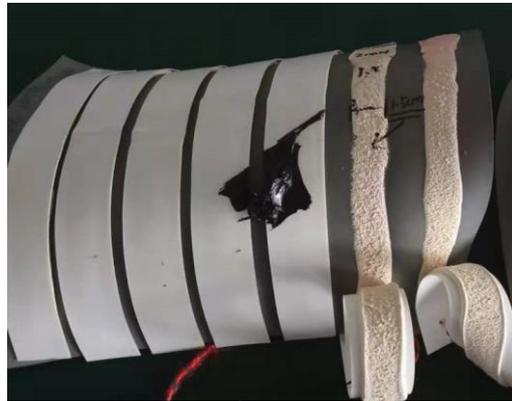
MS Polymer Sealant still maintains high peel strength with PVC waterproof membrane after Damp-Heat 2000h, and the Damp-Heat test will continue until 3000h.



Before Damp-Heat test



Damp-Heat test 500h



Damp-Heat test 1000h



Damp-Heat test 2000h