

Technical Adhesives / MS Polymer Based Adhesives

POLYMER[®] MS 953

MS Polymer Based Transparent Adhesive

DESCRIPTION

MS polymer based, single component, elastic, solvent and isocyanate free, **transparent joint sealant** and adhesive.

APPLICATION AREAS

- Indoor and outdoor,
- Applications where transparent adhesives and sealing materials are required,
- Installation and isolation of glass, mirror and glazed surfaces,
- Joint combinations and adhesion of aluminum, wood, metal and glass,
- Joints of sheet and metal for adhesion, isolation and the absorption of the vibrations in the production of automotive, container, vehicle body and caravan,
- Filling joints and adhesion of natural materials such as marble, natural stone and granite.

TECHNICAL PROPERTIES

Appearance	High viscosity MS paste
Color	Transparent
Density	1.05 ± 0.03 g/cm ³
Hardness (Shore A)	40 ± 5
Film Formation Time	50 ± 10 minutes
Curing Rate	2 mm / 24 hours
Tensile Strength	≥ 1.50 MPa (DIN 53404)
Elongation at Break	> 150% (DIN 53504)
Application Temperature	Between +5°C and +35°C
Service Temperature	Between -40°C and +80°C

ADVANTAGES

- Single component**, easy to apply.
- Can be used on all kinds of different colored surfaces as it is **transparent**.
- Tolerates all kinds of movements and protects its sealing properties in joints thanks to its **high modulus (HM) and high adhesion** property.
- Does not lose volume or mass when cured.
- Does not cause bubbles following applications on damp surfaces.
- Resistant to UV**, does not crack or turn to yellow. Can be used outdoor.
- Durable as it does not contain **solvent** and **isocyanate**. Does not shrink, sag or peel off. Has **low VOC** content.
- Provides strong and elastic adhesion in buildings and vehicles exposed to vibrations.
- Prevents mould and fungus formation.
- Cures neutrally, **odorless**.
- Protects its elasticity even at low and high temperatures (-40°C and +80°C) once cured.

CONSUMPTION

In adhesive applications, the consumption amount varies depending on the application surface and the load on it. In sealant applications, please refer to the table below.

Width of the joint mm	Depth of the joint mm	Consumption ml (for 1 m)	Consumption g (for 1 m)
6	6	36	37.8
10	10	100	105
20	12	240	252

PACKAGING

290 ml plastic cartridges
600 ml aluminum sausages.

APPLICATION**PREPARATION OF THE SURFACE**

- The surface must be clear of materials that prevent adhesion such as dust, engine oils, tar, paint, silicone, curing material, detergent and mold release agents.
- Remove the old and cured sealants mechanically. Do not apply on old and cured sealants that are not totally removed.
- Masking tape is recommended for a smooth appearance of the surface and the material to be spilled around.

APPLICATION

- Cut the cartridge nozzle to allow the the supplied nozzle tip to be fitted.
- Attach the tip to the mouth of the cartridge and, considering the width of the area to be used, cut the tip with a sharp utility knife with a 45° angle, and place the product into the cartridge gun.
- Cut the sausage from one end and place into an appropriate sausage gun. Place the cap nut to the cylinder of the gun.
- Apply the product to the surface and attach both surfaces to each other.
- In case of a use as a sealant, fill the joint gaps uninterruptedly.
- Remove the masking tape in 5 minutes after application.
- Clean excess material with a solvent or alcohol within maximum 5 minutes. If this time has been exceeded and curing has been completed, cleaning can only be done mechanically.

CAUTION

- Avoid application at temperatures below +5°C and above +35°C.
- Use of primer is recommended on polyethylene, polypropylene, polybutylene, polycarbonate and bitumen surfaces.
- Do not use in unventilated areas and places where relative humidity is low as it needs moisture in the air for curing.

SHELF LIFE

Expires in 9 months. Store unopened packages between +10°C and 25°C, stack up to 7 packages on the pallet. Storage area must be protected from sunlight, must be dry, cool and moisture free.



Technical Data Sheet (TDS)

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HEALTH AND SAFETY

As with all chemical products, avoid contact with food products, skin, eyes and mouth during use and storage. During the application, use work clothes, protective gloves and glasses in accordance with the occupational and worker health rules. Consult a doctor if accidentally swallowed. In case of contact with skin, rinse with water. Do not leave the cover open. Store out of the reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at $23\pm 2^{\circ}\text{C}$ temperature and $50\pm 5\%$ relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Construction Chemicals Ltd. is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.