

**Sealants / MS Polymer Sealants****POLYMERA<sup>®</sup> MS 925**

MS Polymer Based Sealant (LM)

**DESCRIPTION**

**MS polymer** based, single component, **low modulus (LM)**, elastic, solvent and isocyanate free hybrid construction sealant which does not contain solvent and isocyanate.

**APPLICATION AREAS**

- Indoor and outdoor,
- All indoor and outdoor dilatation joints of high buildings,
- All kinds of cladding facade joints,
- Rain gutters and construction intersections for sealing,
- Bathrooms and kitchens, in joints of shower cabin, bath tub, washbasin, kitchen sink etc.
- Joint combinations of glass, ceramic, tiles and glazed surfaces,
- Joint combinations of metal, aluminum, wood and glass,
- Joints of stainless, galvanized or black steels,
- Filling joints of natural materials such as marble, natural stone and granite,
- Intersection details of prefabricated elements,
- Sealing window, door and roofs.

**TECHNICAL PROPERTIES**

|                                |                                   |
|--------------------------------|-----------------------------------|
| <b>Appearance</b>              | High viscosity MS polymer sealant |
| <b>Color</b>                   | Pls refer to the color chart      |
| <b>Density</b>                 | 1.40 ± 0.05 g/cm <sup>3</sup>     |
| <b>Joint Movement</b>          | ± 25% (TS EN ISO 11600)           |
| <b>Hardness (Shore A)</b>      | 28 ± 3 (DIN 53505)                |
| <b>Surface Dry Time</b>        | 200 ± 30 minutes                  |
| <b>Curing Rate</b>             | 2.5 – 3 mm / 24 hours             |
| <b>Elongation at Break</b>     | > 500% (7 days) (DIN 53504)       |
| <b>100% Modulus</b>            | < 0.40 N/mm <sup>2</sup>          |
| <b>Application Temperature</b> | +5°C / +35°C                      |
| <b>Service Temperature</b>     | -40°C / +80°C                     |

**ADVANTAGES**

- **Single component**, easy to apply.
- Highly elastic, can be expanded more than 5 times of its length and turns to its original form without being distorted.
- **Resistant to UV**, does not crack or turn to yellow. Can be used outdoor.
- Thanks to its **low modulus (LM) and high adhesion property**, it tolerates small movements and protects its isolation properties in joints.
- Does not bleed oil on construction materials such as marble, natural stone, granite.
- Does not lose volume or mass when cured.
- Does not cause bubbles following applications on damp surfaces
- Durable as it **does not contain solvent or isocyanate**. Does not shrink, sag or peel off.
- Can be overpainted with waterborne and other types of paints.
- Prevents mold and fungus formation.
- Cures neutrally, the odor does not disturb.
- Adheres perfectly on many surfaces without primer.
- Protects its elasticity even in low and high temperatures (-40°C and +80°C) once cured.

**CONSUMPTION**

| Width of the joint<br>mm | Depth of the joint<br>mm | Consumption<br>ml (for 1 m) | Consumption<br>g (for 1 m) |
|--------------------------|--------------------------|-----------------------------|----------------------------|
| 6                        | 6                        | 36                          | 50.40                      |
| 10                       | 10                       | 100                         | 140                        |
| 20                       | 12                       | 240                         | 336                        |

**APPLICATION****PREPARATION OF THE SURFACE**

- The surface must be clear of materials that prevent adhesion such as dust, oil, tar, paint, silicone, curing material, detergent and mold oils.
- Clean mechanically previously applied and cured sealants. Do not apply on old products that have not been fully cleaned.
- Use FIXA Polyethylene Backer Rod on joints to reduce the consumption of POLYMERA MS 925.
- Mask the application area with a masking tape for a smooth appearance and to prevent the material from contaminating the surrounding areas.
- Under normal conditions, there is no need to use a primer. However, if the surface is dusty, very absorbent or very humid, prime it with **POLAN A Polyurethane Floor Primer**. Apply within 6 - 18 hours after priming.

**APPLICATION**

- Cut the mouth of the cartridge to insert the tip supplied with the cartridge.
- Attach the tip to the cartridge mouth and cut with a sharp utility knife, taking into account the width of the area to be used and attach to the cartridge gun.
- In case of sausage packaging is used, cut from one end and place it in the appropriate sausage gun. Mount the union nut on the cylinder of the gun.
- Fill the dilatation and joint gaps continuously and without gaps.
- After the application with a gun, smoothen the surface with a correcting tool of suitable width.
- Remove the masking tape within maximum 5 minutes after the application.
- Clean the excess material with 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. During the curing period, the ambient temperature should be within this range.
- Test the product before using on polyethylene, polypropylene, polybutylene, polycarbonate and bituminous surfaces.
- As it needs the moisture in the air for curing, do not use in airless or low relative humidity environments.
- Not recommended for use as a structural adhesive.
- Test on natural materials such as marble, natural stone, granite before use.

**PACKAGING**

600 ml aluminum sausages  
290 ml cartridges

**SHELF LIFE**

Expires in 12 months. Store unopened packages between +10°C and +25°C, in a dry and cool area free from moisture and protected from sunlight, stack up to 7 packages on a pallet,

**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, wash with plenty of 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±2°C temperature and 50±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 Yapı Chemicals San. Trade Ltd. Sti. 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.