

POLYMERA® MS 940

MS Polymer Based Sealant (HM)

DESCRIPTION

MS Polymer based, single component, **high modulus (HM)**, elastic, solvent and isocyanate free hybrid construction sealant and adhesive. It is developed to provide **adhesion** and **sealing** in roof, facade, sandwich panel, container, wood, metal, composite and prefabricated assembly works.

APPLICATION AREAS

- Indoor and outdoor,
- Horizontal and vertical joint combinations and dilatation joints,
- Roof and terrace dilatations and in joints of parapet corners,
- To absorb vibrations in intersection details and joints of cabin and body of containers, truck booths etc.
- Intersection details of prefabricated elements,
- Assembly and insulation of sandwich panels in roofs and facades,
- Bathrooms and kitchens, in joints of shower enclosures, baths, washbasins and sinks 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,
- Assembly and sealing of wood, metal, PVC, concrete, fiber cement board and various composite cabins, construction and container intersections.

TECHNICAL PROPERTIES

Appearance	High viscosity MS polymer sealant
Color	Pls. see the color chart
Density	1.37 ± 0.05 g/cm ³
Hardness (Shore A)	40 ± 5 (DIN 53505)
Surface Dry Time	70 ± 30 minutes
Curing Rate	3 mm / 24 hours
Elongation at Break	> 400% (7 days) (DIN 53504)
100% Modulus	> 0.50 N/mm ²
Application Temperature	Between +5°C and +35°C
Service Temperature	Between -40°C and +80°C

ADVANTAGES

- **Single component**, easy to apply.
- Highly elastic, can stretch more than 4 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 **high modulus (HM)** and **high adhesion property**, it tolerates rigorous movements and protects its adhesion and sealing 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** and **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 mm	Depth of the joint mm	Consumption ml (for 1 m)	Consumption g (for 1 m)
6	6	36	49.32
10	10	100	137
20	12	240	329

PACKAGING

600 ml aluminum sausages
290 ml cartridges

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 POLYMER A MS 940.
- Mask the application area with 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 material in unwanted places 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.



Technical Data Sheet (TDS)

Form No: 5.01 TDS Polymera MS 940
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Page
3 / 3

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 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.