

Technical Adhesives / MS Polymer Based Adhesives

POLYMERA® MS 965

MS Polymer Based Industrial Adhesive

DESCRIPTION

MS Polymer based, single component, elastic, solvent and isocyanate free, hybrid, **industrial adhesive**.

APPLICATION AREAS

- Bonding and sealing in automotive, container, bodywork and caravan manufacturing, particularly at sheet and metal joint areas to ensure sealing and absorption of vibrations,
- Bonding and sealing of sunroof systems,
- Bonding the roofs of automobiles, trains and trucks,
- Bonding of aluminum or polyester corner profiles to trailers,
- Bonding of automotive flooring systems,
- Sealing of welding seams.

TECHNICAL PROPERTIES

Appearance	High viscosity MS paste
Color	Black and white
Sag Resistance	Good
Density	1.45 ± 0.05 g/cm ³
Hardness (Shore A)	65 ± 5
Film Formation Time	35 ± 10 minutes
Curing Rate	3 mm / 24 hours
Tensile Strength	≥ 3 MPa (DIN 53504)
Elongation at Break	> 300% (7 days)
Application Temperature	Between +5°C and +35°C
Service Temperature	Between -40°C and +80°C

ADVANTAGES

- Single component**, can be applied cold and easily.
- 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.
- Does not contain **solvent, isocyanate, PVC and silicone**, has a **low VOC** content.
- Durable and does not crack, **shrink**, sag or peel.
- Provides strong and elastic adhesion in vehicles exposed to vibrations.
- Prevents mould and fungus formation.
- Can be **overpainted** with waterborne and other types of paints.
- Cures neutrally, **odorless**.
- Adheres perfectly to many surfaces **without primer**, including aluminum, stainless steel, galvanized steel, zinc, copper, brass, iron, glass, and PVC.
- Has excellent resistance to weather conditions and temperature.
- Protects its elasticity even at low and high temperatures (-40°C and +80°C) once cured.

CONSUMPTION

The consumption amount varies depending on the application area and the load on it.

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, oil, tar, pitch, paint, silicone, curing material, detergent and other substances.
- Clean previously applied and cured adhesives mechanically. Do not apply on old products that are not completely cleaned.
- Under normal conditions there is no need for primer. However, priming can be done depending on the condition of the surface.

APPLICATION

- Cut the cartridge nozzle to allow the the supplied nozzle tip to be fitted.
- Attach the tip to the cartridge nozzle and cut with a sharp utility knife, considering the width of the area to be used, then attach to the cartridge gun.
- Cut one end of the sausage packaging, place into the appropriate sausage gun, and mount the cap nut onto the gun's cylinder.
- Apply the product to the surface to be bonded using the gun, and join both surfaces together within 15 minutes.
- Clean any material that has spilled onto unwanted areas with solvent or alcohol within 5 minutes at the latest. If this time has passed and curing is complete, cleaning can only be done mechanically.
- In sealing applications, the surface of MS 965 should be leveled within 15 minutes after application.

CAUTION

- Avoid application at temperatures below +5°C and above +35°C.
- Do not use in unventilated areas and places where relative humidity is low as it needs moisture in the air for curing.
- At low temperatures, the product viscosity increases. Therefore, allow the the product to reach ambient temperature before use.
- Do not move the vehicle before the product is fully cured.
- Does not adhere to polyester, painted and lacquered wood, untreated polyethylene, polypropylene, and Teflon.

SHELF LIFE

Expires in 9 months. Store unopened packages between +10°C and +25°C in dry, cool and moisture free areas protected from sunlights. Stack maximum 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, rinse with water. Do not leave the cover open. Store out of the reach of children.



Technical Data Sheet (TDS)

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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.