

Waterproofing Systems / MS Polymers

POLYMERA® MS FLUID

MS Polymer Based Fluid Liquid Membrane

Tested by METU Chemical Engineering Department
according to BS 6920 Standard.
Report No: 2014.03.04.866/02

DESCRIPTION

Single component, fluid, ready-to-use, solvent and isocyanate free, UV resistant, high technology coating and waterproofing material, produced with **MS Polymer** hybrid technology.

POLYMERA MS FLUID can be used for waterproofing of horizontal and vertical large surfaces and for bridging capillary cracks up to 3 mm.

APPLICATION AREAS

- Indoor and outdoor,
- Waterproofing and local repairs of horizontal surfaces, thanks to its self levelling properties,
- Waterproofing and local repair of vertical surfaces, thanks to its ease of application with roller or brush,
- On almost all kinds of mineral surfaces, such as concrete, stone, marble, ceramic, tile, all kinds of wood, glass, metal, tile, brick, cement mixed chip panel, gas concrete and their combinations,
- Balconies, terraces or pitched roofs where waterproofing is required, on wood and metal surfaces, in intersections of chimneys, ventilations and skylights,
- Wet areas such as bathrooms and kitchens,
- Places below ground level, such as foundations, garage and basements, against non-pressurized water and ground moisture.

TECHNICAL PROPERTIES

Appearance	Medium viscosity elastomeric fluid liquid coating
Color	Pls. see the color chart
Density	1.45 ± 0.05 kg/L
Application Temperature	Between +5°C and +35°C
Hardness (Shore A)	30 ± 5
Bond Strength by Pull-off	≥ 2.0 MPa (EN 1542)
Elongation at Break	> 300% (7 days)
Capillary Absorption and Water Permeability	w < 0.1 kg/(m ² .h ^{0.5}) (EN 1062-3); 0.018 kg/(m ² .h ^{0.5}) (TS 4045)
Film Formation Time	150 ± 30 minutes
Curing Rate	2 mm / 24 hours
Service Temperature	-30°C / +80°C

ADVANTAGES

POLYMERA MS FLUID is an **MS Polymer** based product with high technical qualifications, developed with Japanese technology. **MS Polymer** technology has important advantages compared to existing polyurethane, silicone, bitumen or cement-acrylic based coatings:

- **Does not contain solvent and isocyanate** which are harmful to human health and to the environment.
- **Has 100% elastomeric composition**, does not shrink as it does not contain solvent.
- **Resistant to UV**, does not crack, sag or turn to yellow. Can be safely used outdoor.
- Bonds even on **damp surfaces, provides high adherence**.
- Not harmful to human health and to the environment thanks to **its low VOC** values. Almost odorless.
- Easily and quickly applied with a brush or a roller.

Does not form seams. Overpaintable.

- **Very flexible.** Can cover the cracks up to 3 mm, fills the cracks up to 2 mm. Keeps its elasticity and bonding properties in joints and cracks caused by

the movements of the buildings. Turns to its original form perfectly.

- Protects its elasticity even in low temperatures, when cured.

POLYMERA MS FLUID is a new generation product which offers all these advantages in a single product.

CONSUMPTION

1.40 - 1.50 kg/m² for approximately 1 mm thickness in each layer. (Varies depending on the application area, roughness and absorption of the surface.) At least two layers are recommended.

APPLICATION

PREPARATION OF THE SURFACE

- The surface must be clear of materials that prevent bonding, such as dust, oil, tar, paint, silicone, curing materials, detergents and mold oils.
- Repair the weak parts of the concrete, remove poorly adhered plasters; make the surface sound and solid. Repair the static cracks in the building with a plaster with **AQUALATEX** or **REPAIRGROUT EXPAN High Strength Shrinkage-Free Grout Mortars**. Fill the dynamic (moving) cracks with FIXA's appropriate MS, hybrid or polyurethane sealants. Seal any areas of water ingress with **AQUASTOP**.
- Under normal conditions, there is no need for primer. However, if the surface is dusting or excessively wet, prime with **POLAN A Polyurethane Floor Primer**. Apply the product within 6 - 18 hours after priming.

APPLICATION

- **POLYMERA MS FLUID** is ready-to-use. Do not dilute or add any external substance. Mix before use.
- Cut the aluminum packaging of **POLYMERA MS FLUID** from the top corner in a triangle shape with scissors and pour directly onto the surface. Apply with a spatula, flat or notched trowel.
- Apply **POLYMERA MS FLUID** in two layers perpendicular to each other. Wait 6 - 12 hours after the application of the first layer.
- Bevel the corners with **REPAIRGROUT EXPAN High Strength Shrinkage-Free Grout Mortars** after the first layer, use **IMPERMO PVC Waterproofing Tape** and apply the second layer.
- It is recommended to use **IMPERMO Waterproofing Net** between two layers.
- For a smooth finish at the borders, surround the application area with masking tape. Remove the tape in 5 minutes after the application.
- The area can be open for use in 24 – 48 hours, final curing takes place after 7 days.

CAUTION

- Avoid application at temperatures below +5°C and above +35°C.
- There are 2 aluminum packages of 7 kg in the 14 kg bucket to prevent fast curing of the product during application. The packages are designed for single use. Use the product completely within the specified duration when opened.
- Do not add water or thinning solvent to the product.
- After the application, protect the surface from water, rain, dew, frost and snow until it is completely dry.

PACKAGING

1 kg tin cans
7 kg plastic buckets (7 kg aluminum foiled package)
14 kg plastic buckets (2 x 7 kg aluminum foiled packages).

SHELF LIFE

Expires in 12 months. Store unopened packages between +10°C and +25°C, in a dry environment. Protect from sunlight, stack up to 3 packages on the pallet.



Technical Data Sheet (TDS)

Form No: 5.01 TDS Polymera MS FLUID
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Date
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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 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.