

# SUFFIX MS HYDRO - TIX

Single Component Thixotropic MS Polymer Waterproofing Repair Membrane

## ISOLATIONS

### Description of Product

SUFFIX MS HYDRO-TIX; It is a high-tech product produced with MS Polymer technology, is a coating and waterproofing material, single-component, thixotropic, ready-to-use, UV resistant, highly resistant to water and moisture, free of solvents and isocyanates, has high permanent elasticity, can be applied with a steel trowel, and does not shrink or collapse after curing. It is used to waterproof surfaces and bridge hairline cracks up to 5 mm.

### Areas of Use

It is used against unpressurized water and ground moisture in interior and exterior spaces, at chimney connection points, in wet areas such as pools, bathrooms and kitchens, and in places below ground level such as foundations, garages and basements. It is used on vertical and horizontal concrete surfaces, for bridging cracks, closing pores, repairing around water drains, filling rod holes, repairing gutter joints, and for waterproofing and protection in bridge and natural course concretes.

### Advantages

It does not contain solvents and isocyanates that are harmful to the environment and human health. It can be applied without primer. It can be easily used indoors. It has a 100% elastomeric structure and does not lose volume because it does not contain solvents. It does not crack, yellow or flow. It can be used easily outdoors. It adheres perfectly to damp surfaces without a primer and provides high adherence. It is very flexible and has the ability to bridge cracks up to 5 mm and fill cracks up to 5 mm. It maintains its elasticity and adhesion properties in cracks and joints that form and grow as the building moves. It has a rollback feature. It is applied easily and quickly with a roller. It does not form seams. It can be painted over. Since it is a single component, it can be applied easily and quickly.

#### Physical Properties

Quality (23°C, 50% RH)	Value	Standard & Method
Appearance	Concrete Gray	-
Viscosity	9000 ± 1000	EN ISO 2555
Density (gr/cm <sup>3</sup> )	1,36 ± 0,05	EN ISO 2811 - 1
Solid Content (%)	> 99	EN ISO 3251

#### Mechanical Properties

Quality (23°C, 50% RH, 7 Days)	Value	Standard & Method
Elongation at Break (%)	> 500	EN ISO 527 ASTM D 412
Tensile Strength (N/mm <sup>2</sup> )	> 2	EN ISO 527 ASTM D 412
Modulus (100%)	0,91	EN ISO 527 ASTM D 412
Adhesion Strength (N/mm <sup>2</sup> )	> 0,8	EN 1542 ASTM D 4541
Surface Hardness (Shore A)	44	EN ISO 868 ASTM D 2240

### Technical Properties After Application and Cure

Quality (23°C, 50% RH)	Value	Standard & Method
Curing	24 hours	-50% RH at 23°C
Film Formation Time	60 minutes	
Recoating Time (Hours)	8 - 24	
Full Curing (days)	7	
Application Surface Temperature	min 10°C - max 40°C	-
Application Ambient Temperature	min 10°C - max 40°C	-

#### Application Information - Surface Preparation

The application surface must be clean of anti-adhesion substances such as dust, oil, tar, pitch, paint, silicone, curing material, detergent and mold oils. Weak parts of the concrete should be repaired, plasters that do not adhere well should be removed, the surface should be made smooth and solid, and static cracks in the building should be repaired with Resistant Non-Shrinkage Grout Mortar. Dynamic (moving) cracks should be filled with suitable SUFFIX MS or Polyurethane mastics. Cracks leaking from water should be plugged. There is no need to use a primer.

#### Application Information - Environmental Conditions

- The relative humidity of the air should be at most 80% and the application temperature (environment and surface) should be between +10°C and +40°C.
- It should not be rainy in open areas 48 hours before, during and 48 hours after application.

#### Application Information - Application on Surface

SUFFIX MS HYDRO -TIX; It is a one-component and ready-to-use material. After the product is mixed thoroughly, it is poured onto the surface homogeneously. Then, it should be applied evenly to the surface in one or two layers using a steel trowel or spatula. SUFFIX MS HYDRO-TIX is applied as the first coat with a consumption of 1.30-1.40 kg/m<sup>2</sup> per square meter. Then the second layer should be applied with a consumption of 1.30-1.40 kg/m<sup>2</sup>. It reaches full mechanical and chemical strength in approximately 7 days. Second coat application should be done within 12 - 24 hours.

#### Sarfiyat

1.30 - 1.40 kg/m<sup>2</sup> for approximately 1 mm thickness in each layer (It may vary depending on the roughness and absorbency of the surface.) It is recommended to be performing the application in at least two layers and 2.60-2.80 kg/m<sup>2</sup> in two layers in total, depending on the surface roughness.

#### Cleaning After Application

After application, the tools and equipment used should be cleaned with appropriate solvent. After hardening, it can only be cleaned from the surface mechanically.

#### Points to Consider

Avoid application at temperatures below +10°C and above +40°C. It should not be used on surfaces and areas where there is water; water must be drained before application. Packaging is designed for single use. Once opened, it must be consumed completely within the specified time. Do not add external water or thinning solvent into the product.

After application, the surface should be protected from water, rain, dew, frost and snow until it is completely dry. Working and reaction times of hybrid polymer-based systems are affected by the ambient and ground temperature and the relative humidity in the air. At low temperatures, the reaction slows down, which extends the pot life and working time. High temperatures accelerate the reaction and the above-mentioned times are shortened accordingly.

In order for the material to complete its curing, the ambient and ground temperature must not fall below the minimum allowed temperature. The concrete surfaces to be applied must have attained their 28-day strength.

## Packing

It is packaged in the form of 2 aluminum foil packages of 7 kg each in a 14 kg bucket and a 1kg aluminum foil package.

## Storing and Shelf Life

The material should be stored in a cool and dry place. The life of the material is 9 months when stored correctly and in its original, unopened packaging. It freezes at temperatures below 0°C.

## Health / Safety Information

Comply with the Safety Data Sheet (SDS) prepared in accordance with the EU directives regarding the product.

None of our instructions and technical specifications written herein are binding in general and EXCLUSIVELY in accordance with the protective rights of third parties and do not exempt you from the obligation to carry out the necessary examination to determine the suitability of our products. Our company is not responsible for any damages that may occur as a result of natural damage or due to use and/or product reliability or information and instructions, for whatever reason and to whatever extent.



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