

# Merks Polymer MS

Construction Chemicals > Waterproofing Products > MS Polymer-Based



It is a single-component, MS polymer-based, hybrid waterproofing material. Once fully cured, it is a crack-bridging, elastic, and UV-resistant waterproofing material.

## ■ Fields of Application

- Roofs and terraces
- Metal roofs and sandwich panel cladding
- Insulation of roof valleys and rain gutters
- As a protective layer for polyurethane thermal insulation foam applications
- Waterproofing for horizontal and vertical reinforced concrete surfaces

## ■ Advantages

- Can be applied on slightly damp and dry surfaces
- Not affected by adverse weather conditions
- Resistant to UV effects
- Ready to use
- Easy to apply, self-leveling
- High elasticity
- Can be applied with brush, roller, trowel, or suitable spray equipment
- Provides excellent adhesion to the surface
- Environmentally friendly; does not contain bitumen, isocyanates, or solvents

## 1 Surface Preparation

The surface to be applied must be solid and clean. Any residues such as oils, paraffin, bitumen, etc., that may prevent adhesion should be removed, and all loose particles of mortar, plaster, etc., should be cleaned off. Any water puddles must be removed from the surface. If the existing surface is concrete, it should be at least 28 days old. Damaged surfaces should be repaired with appropriate repair mortars, and edges and corners should be chamfered (approx. 4x4 cm). For metal surfaces, thorough cleaning must be done using methods such as sandblasting. Primer usage always provides advantages, which is why Merks Epoprime EB 710, EB 712, and PU Primer PB 720 are recommended

## 2 Application

Polymer MS is ready for use. It should be applied evenly to the surface in one or two coats using a roller, brush, or trowel. The second coat should be applied only after the first coat has completely dried. For large areas and professional applications, it can be sprayed using an airless pump, which provides significant labor savings. For areas such as repaired cracks, wall-floor joints, 90° angles, chimney and pipe joints, etc., it is recommended to apply reinforcement fabric between the two coats.

## 3 Consumption

Depending on the surface condition, the consumption is 1300 – 1500 g/m<sup>2</sup> for a dry film thickness of 1 mm.

## 4 Packaging

Inside a 14 kg plastic bucket, there are 2 pieces of 7 kg aluminum foil.

## 5 Storage Conditions / Shelf Life

- The product should be protected from adverse weather conditions
- Store in a dry, cool, enclosed environment (between +10°C and +25°C)
- Use the opened product immediately
- If storage conditions are followed, the shelf life is 9 months

## 6 Cleaning of Tools

Tools used can be cleaned with solvent; if the material has dried, it should be cleaned mechanically.

## 7 Safety

Users should refer to the latest Safety Data Sheets (SDS), which include physical, ecological, toxicological, and other safety-related data, for information and advice on the safe handling, storage, and disposal of chemical products.



## TECHNICAL DATAS

Properties	Value	Standard
Chemical Structure	MS Polymer	-
Density (g/cm <sup>3</sup> )	1,44	ASTM D1875
Color	Gray / White	-
Viscosity	15000 mPas	-
Crack Bridging	Up to 5 mm	-
Hardness (Shore A)	40	EN ISO 868
Tensile Strength	≥ 0.9 N/mm <sup>2</sup>	(DIN 53504)
Intercoat Waiting Time	+23°C: min 8 hours	+10°C: min 24 hours
Application Temperature	+5°C to +35°C	-
Service Temperature	-25°C to +80°C	