

MC-Proof SP 515

SUPER FLEX two-component polymer-modified cementitious waterproofing membrane.

PRODUCT PROPERTIES:

- Ultra-elasticity, high flexibility that ensures the waterproofing membrane remains intact in cases of structural surface cracks or high-rise structures subject to vibrations.
- Allows water vapor to escape while still ensuring good waterproofing.
- Easy to apply.
- Good adhesion to concrete and other cementitious substrates.
- Non-toxic.

AREAS OF APPLICATION:

- Applicable to concrete or other cement-based substrates.
- Wet areas indoors and outdoors.
- Swimming pools, water tanks, planters.
- Basement walls.
- Roof floors, exterior walls, eaves, concrete gutters.
- Balconies, terraces.
- Bathrooms, drying yards, toilets, laundry rooms, kitchens, etc.

APPLICATION NOTES:

- **Substrate preparation:**
 - The substrate must be sound firm, free of dirt, grease, old paint or other impurities,... which may affect the adhesion of the waterproofing layer.
 - Flatten sharp, convex positions. Use a high-pressure water jet or suitable equipment to remove debris and clean the surface.
 - Fill up cracks, pits on the substrate.
 - Substrate with high water absorption should be moistened to saturation but without standing water.
 - Wall corners and edges must be chamfered with plaster or other appropriate materials.
- **Mixing:**
 - Mixing ratio: Component A (Powder) : Component B (Liquid) = 1 : 1 (By weight).
 - Pour component (B) into a clean bucket, slowly sprinkling component (A) into component (B) using a slow-speed mixer.
 - Mix for about 3 minutes, carefully mixing to until the mixture is homogeneous without lumps. Do not mix at high speed or mix for too long to avoid foaming in the mixture.
 - The product after mixing should wait 3-5 minutes for maturing of the chemicals, then it should be applied immediately. After the pot life time, discard it. Do not add water and mix again.
 - To ensure the ratio of the mixture, the product must be mixed as a whole, not in parts.
- **Application:**
 - **MC-Proof SP 515** must be applied with a minimum of 2 coats. The first coat is applied by broom, brush or roller in only one direction until the surface is fully covered.

- The second coat is applied as soon as the first coat begins to dry, about 3-6 hours depending on environmental conditions. Use a soft brush to sweep in a direction perpendicular to the first layer. In case the first coat is too dry, it should be lightly moistened with water before applying the second coat.
- The recommended thickness of the finished waterproofing is at least 1 mm for areas not subject to hydrostatic pressure such as bathrooms, balconies, kitchens, terraces,...
- **MC-Proof SP 515** can be applied with a suitable sprayer and must be tested prior to application.
- **Curing:**
 - Avoid applying in direct sunlight or in high wind conditions. The waterproofing layer after application is protected from rain or running water for at least 24 hours to preserve the integrity of the waterproofing membrane. Early exposure to water can affect the color of the waterproofing without affecting the quality.
 - **MC-Proof SP 515** waterproofing membrane requires a protective screed on it.
- **Cleaning:**
 - Use clean water to clean tools and equipment immediately after construction.
 - When the product is solidified, it can only be cleaned by mechanical means.
- **Safety information: MC-Proof SP 515** does not contain hazardous substances requiring labeling and very safe in normal working conditions such as wearing gloves, goggles,...

TECHNICAL DATA:

Characteristic	Unit	Value	Comments
Mixing ratio	Volume	1 : 1	Powder : Liquid
Pot life	Minute	30 – 40	at 28°C
Adhesive strength (concrete surface)	kgf/cm ²	~ 12	ASTM C836/836-15
Tensile strength	kgf/cm ²	> 5.0	ASTM D412-16
Elongation	%	~ 580	ASTM D412-16 (V = 500 mm/ mins)
Breaking Strength	kgf/cm ²	> 6.8	ASTM D624-00 (V = 500 mm/ mins)
Crack cover ability at low temperature		Not cracking	ASTM C836/836-15
Water absorption	Mm	Impervious	DIN 1048-5
Waterproofing ability		Impervious	BSEN 14891 (150 kPa in 7 days)
Consumption	kg/mm/m ²	~1.3	
Application temperature	°C	6 – 35°C	Air and surface temperature

**Specifications are based on laboratory conditions (23°C ± 2 and 60% RH) and are subject to change under actual application conditions. In order to determine specifications under specific conditions, preliminary conformance tests should be performed under actual construction conditions.*

PRODUCT CHARACTERISTICS:

Form	Component A: Powder: Light grey Component B: Liquid: Milky white
Packaging	20 kg/set (Component A: 10kg, Component B: 10kg)
Storage	Store in a cool, dry place at a temperature of 10-30°C, covered and ventilated.
Life time	8 months from date of manufacture if stored properly in unopened original packaging.

Note: The information provided here is based on our experience and correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual building projects, to the specific application and to non-standard local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be adhered.

Edition 08/2024. Some technical changes have been made to this print medium. Older editions are invalid and may not be used.