

# MC-Proof SP 190

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

## PRODUCT PROPERTIES:

- High flexibility, crack cover ability up to 2 mm.
- High adhesion strength.
- Allows air and water vapor to escape.
- Non-toxic for domestic water.
- Easy to apply.
- Convenient packaging.

## AREAS OF APPLICATION:

- Indoor and outdoor wet areas.
- Swimming pools, water tanks, planters.
- Rooftops, exterior walls, gutters, concrete gutters.
- Balconies, terraces.
- Bathrooms, drying yards, toilets, laundry rooms, kitchens, etc.

## APPLICATION NOTES:

- **Substrate preparation:**
  - The construction surface must be hard, 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.
  - Handling cracks, pits on the construction surface to have a hard, firm surface that easily adheres to the waterproof layer.
  - Surfaces with high water absorption should be moistened to saturation of the surface but without water stagnation.
  - Wall corners and edges must be chamfered with plaster or other suitable materials.
- **Mixing:**
  - Mixing ratio: Component A (Powder) : Component B (Liquid) = 1.5 : 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 disperse the flour evenly 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 the chemical components to react with each other, then it should be applied immediately. If the mixture is dry, 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 190** must be applied with a minimum of 2 coats. The first coat is applied by brush, 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 finish waterproofing is at least 1 mm for areas not subject to hydrostatic pressure such as bathrooms, balconies, kitchens, terraces, etc.
- **MC-Proof SP 190** can be applied with a suitable sprayer and must be tested prior to application.
- **Curing:**
  - Avoid applying in direct sunlight, surface temperature >35°C or in windy conditions. The applied waterproofing layer should be protected from rain or running water for at least 24 hours to protect the integrity of the waterproofing membrane. Early exposure to water can affect the color of the waterproofing without affecting the quality.
  - **MC-Proof SP 190** 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 190** does not contain any hazardous substances requiring labeling and is very safe in normal working conditions such as wearing gloves, goggles,...

#### TECHNICAL DATA:

Characteristic	Unit	Value	Comments
Mixing ratio	Volume	1.5 : 1	Component A (Powder): Component B (Liquid)
Pot life	Minute	~ 60	at 28°C
Adhesive strength (concrete surface)	N/mm <sup>2</sup>	~ 1.1	ASTM D4541
Crack cover ability	mm	~ 2	ASTM C836 (at 1.5 DFT)
Elongation	%	≥ 200	ASTM D412-16
Waterproofing ability		Impervious	BSEN 14891 (150 kPa in 7 days)
Consumption	kg/mm/m <sup>2</sup>	~1.58	2 layers

*\*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:

<b>Form</b>	Component A: Powder: Light grey Component B: Liquid: Milky white
<b>Packaging</b>	20 kg/set (Component A: 12kg, Component B: 8kg)
<b>Storage</b>	Store in a cool, dry, covered and ventilated place.
<b>Life time</b>	12 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.

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