

MC-Proof PU 910

One-component liquid PU-based waterproofing membrane with high elasticity and good adhesion.

PRODUCT PROPERTIES:

- One component, Polyurethane based.
- Excellent flexibility
- Good chemical resistance.
- Low viscosity, easy to apply.
- Low solvent content.
- Very good bonding on various surfaces.
- High solid content creates a durable and seamless waterproof membrane.
- Resistant to elevated temperatures, frost and de-icing salts.
- Optimized workability for application by roller, squeegee, brush and airless spraying on horizontal and inclined surfaces.

AREAS OF APPLICATION:

- Waterproofing for roofs, planting areas, balconies, loggias, drying yards, sewage tanks, etc.
- Waterproofing for bridge deck, basement, foundation,...

APPLICATION NOTES:

- **Substrate preparation:**
 - **MC-Proof PU 910** can be applied on all mineral substrates, metals, plastics and even wood.
 - All substrates to be coated must be sound, clean and free from all loose particles, dust, oil and any other contaminants (e.g. release agent, cement residue).
 - Concrete tensile strength > 1.5N/mm². Substrate moisture content must not exceed 10%. Voids and deep depressions > 5mm must be filled with suitable specialized repair mortar (e.g. Nafufill KM 103).
 - At the junction of the floor and the wall, it must be plastered to create a curvature to prevent cracking of the waterproofing membrane.
 - Before applying **MC-Proof PU 910**, joints and cracks must be prepared. Cracks with water leakage can be repaired with specialized products of MC-BIFI (eg MC-Injekt 2188, MC-Injekt 2300,...).
- **Primer:** Primer is basically not necessary, however to maximize adhesion or for requirements with higher adhesion than normal, it is recommended to use an additional primer of **MC-Proof PU 910** with 10% more solvent.
- **Application:**
 - **MC-Proof PU 910** is a ready-to-use liquid PU based, and it needs to be stirred to homogenize before use.
 - A slow-speed mechanical stirrer should be used to avoid the entrainment of air into the mixture during stirring.
 - Apply **MC-Proof PU 910** by roller, brush or spray directly onto the prepared surface.
 - The consumption is 1.6 kg/m² corresponding to the waterproof layer thickness of 1.0 mm. To achieve the recommended thickness, 2 coats should be applied and the waiting time between 2 applications should be at least 6 hours. This waiting time depends on the temperature and other climatic conditions at the job site.

- After construction, the protective mortar layer should be rolled onto the waterproof layer, to ensure the long-term durability of the waterproof layer.
- **Curing:** After application, **MC-Proof PU 910** needs to be protected until the waterproofing layer meets the final specifications (e.g. traffic, rain, humidity >90% RH, etc.)
- **Cleaning:** Cleaning tools and equipment with MC-Thinner after use. Hard materials can only be removed by mechanical agents.
- **Safety information:** **MC-Proof PU 910** contains no harmful substances that require labeling. Very safe under normal working conditions such as wearing gloves and goggles, etc. **MC-Proof PU 910** causes mild skin sensitization upon direct contact.

TECHNICAL DATA:

Characteristic	Unit	Value	Comments
Density	g/cm ³	1.5 - 1.6	ASTM D1475-13
Viscosity	cps	~ 5.000	ASTM D2196-15
Hardness Shore A		60 ± 5	ASTM D2240
Solid content	%	90 ± 5	ASTM D2369-10
Elongation to break	%	600 ± 100	ASTM D412-16
Crack bridging ability	mm	> 2	BS EN 14891
Tensile strength	Mpa	≥ 1	ASTM D412-16
Adhesive strength	Mpa	≥ 1	ASTM C836
Tear strength	N/mm	≥ 16	ASTM D412-16
Rain and foot traffic resistance	Hours	> 6	
Watertightness test time	Hours	~ 36	
Consumption	kg/m ² /mm	1.6	
Application conditions	°C	≥ 6 ≤ 40	Air and substrate temperature
	%	≤ 85	Relative humidity
	%	≤ 10	Substrate residual moisture
	°C	3	Above dew point

**All technical data are based on laboratory tests at 23°C ±2 and 60% RH and may vary in practical application. To determine the individual technical suitability, preliminary suitability tests should be carried out under the application conditions.*

PRODUCT CHARACTERISTICS:

Form	Liquid.
Color	White, grey, green, black.
Storage	Store in dry, cool, covered and ventilated place.
Life time	12 months from manufacture date stored in original unopened packs.
Packing	25 kg steel pail.

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 **11/2025**. Some technical changes have been made to this print medium. Older editions are invalid and may not be used.