BE SURE. BUILD SURE.

MC-Proof PU 920

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

PRODUCT PROPERTIES:

- One component, Hybrid Polyurethane base.
- Low viscosity, easy to apply.
- Low solvent content.
- Very good bonding on various surfaces.
- High solid content creates a durable and seamless waterproof membrane.
- Excellent flexibility and crack-bridging performance (from 3 to 5mm).
- Resistant to elevated temperatures, frost and de-icing salts.
- Good chemical resistance.
- 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 920** 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).
  - Surface tensile strength must be > 1.5N/mm². The moisture content of the substrate must not exceed 10%.
  - Holes and indentations > 5mm deep must be filled with a 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 920**, 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 required, however, for maximum adhesion efficiency or requirements with higher than normal adhesion, it is recommended to use Primer with **MC-Proof PU 920** mix with 10% thinner.
- **Application:**
  - **MC-Proof PU 920** 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 920** by roller, brush or spray directly onto the prepared surface.
  - The consumption is 1.5 kg/m² corresponding to the waterproof layer thickness of 1.0 mm. To achieve the recommended 2.0 mm dried layer thickness, 2 coats should be applied and the waiting time between 2 applications should be at least 6 hours.

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  - This waiting time depends on the temperature and other climatic conditions at the 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 920** 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 920** contains no harmful substances that require labeling. Very safe under normal working conditions such as wearing gloves and goggles, etc. **MC-Proof PU 920** causes mild skin sensitization upon direct contact.

TECHNICAL DATA:

Characteristic	Unit	Value	Comments
Density	g/cm³	1.48	ASTM D1475-13
Viscosity	cps	~5.000	ASTM D2196-15
Hardness Shore A		50 ± 5	ASTM D2240
Solid content	%	> 80	ASTM D2369-10
Elongation to break	%	> 600	ASTM D412-16
Tensile strength	Mpa	≥ 1.5	ASTM D412-16
Adhesive strength to concrete	Mpa	≥ 1	ASTM D7234
Rain and foot traffic resistance	Hour	> 6	
Watertightness test time	Hour	~ 36	
Consumption	kg/m/m	1.5	
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	Black
Storage	Store in dry, cool, covered and ventilated place.
Life time	12 months from manufacture date stored in original unopened packs.
Packing	22 kg or 28 kg steel pail.

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