MC-Proof 2110 UV (Previously known as Dictaflex 500)

UV-resistant PU-hybrid Waterproofing Membrane

Product Properties

- Single component, ready-to-use
- Water-based polyurethane-hybrid
- UV-resistant, highly elastic with good crack-bridging capacity
- Cure to form a seamless elastomeric waterproof membrane
- Ideal for exposed roof slabs with complex geometry
- Impermeable to water
- Can be used on horizontal and vertical surfaces
- Low VOC and eco-friendly
- As reflective coating (white colour)

Areas of Application

- Reinforced concrete flat roofs and roof gutters
- Exposed concrete slabs
- Balconies and terraces
- Facades
- Metal roofs

Application

Substrate Preparation

The substrate must be structurally sound and free from cement laitance, loose particles, dust, oil, grease and any other contaminants or old coatings which may affect the adhesion. Grind smooth all high spots and sharp protrusions. Surface defects such as honeycombs, blowholes, voids and cracks must be repaired and reprofiled to prepare a sound surface for bonding.

All corners, right-angle bends and wall-floor junctions must have a mortar angle fillet installed. Alternatively, **MC-FastTape** (waterproof sealant tape) shall be installed at these areas.

Priming

Dilute 10 parts of **MC-Proof 2110 UV** with 1 part of clean water (10%), mix until homogeneous consistency is obtained and prime the prepared surface using a brush or roller at 0.4 kg/m^2. Wait for about 90 minutes before applying neat coats.

For metal surface, please consult MC-Bauchemie technical department for a suitable primer.

Neat Coats

Standard System

MC-Proof 2110 UV can be applied by using a brush, roller or spraying equipment. Once the priming coat has dried, apply a neat coat of **MC-Proof 2110 UV** at 0.5 kg/m^2. Leave to cure for approximately 6 hours prior to applying the second coat at the same rate in crosswise direction.

High-build System

Once the priming coat has dried completely, apply the first neat coat at 0.6 kg/m^2. Following this, lay a layer of reinforcement mat **MC-CSM 100** onto the wet coating and embed it to thoroughly impregnate the mat. Make sure there are no air bubbles and creases. After approximately 12 hours, apply the second neat coat at 0.5 kg/m^2 and allow it to dry for 6 hours. Afterwards, apply the final neat coat at 0.5 kg/m^2.

Please refer to the table overleaf for complete system information.

Protection and Curing

The freshly applied membrane must be protected from rain for a minimum of 6 hours. Full cure is minimum 48 hours after the final coat. Ponding test may be carried out after full cure.

Cleaning

Clean all equipment, tools and hands with water immediately after use. Hardened materials can only be mechanically removed.

Application (continue)

Important Considerations

- Do not mix MC-Proof 2110 UV with other materials except with clean water for priming coat.
- Thoroughly agitate contents before use.
- Substrates to receive MC-Proof 2110 UV must have sufficient gradient to avoid long-term water ponding.
- Substrates must be free from surface water prior to the application of MC-Proof 2110 UV.
- Do not apply MC-Proof 2110 UV on cementitious substrates with rising moisture.
- Do not allow temporary ponding between coats or until the final coat has attained its full cure.

System Structure

Standard System

Steps	Product	Consumption (kg/m^2)	Overcoating time (hours)
Priming coat	MC-Proof 2110 UV : clean water = 10:1	0.4	1.5
Base coat	MC-Proof 2110 UV	0.5	6
Finish coat	MC-Proof 2110 UV	0.5	-
		Total : 1.4	

High-build System

Steps	Product	Consumption (kg/m^2)	Overcoating time (hours)
Priming coat	MC-Proof 2110 UV : clean water = 10:1	0.4	1.5
1st coat	MC-Proof 2110 UV + MC-CSM 100	0.6	12
2nd coat	MC-Proof 2110 UV	0.5	6
Finish coat	MC-Proof 2110 UV	0.5	-
		Total : 2.0	

** Overcoating times are approximate and are based on +25°C and 50% R.H.*

BE SURE. BUILD SURE.

Technical Data for MC-Proof 2110 UV			
Characteristics	**Unit**	**Value**	**Comments**
Specific Gravity		1.25±0.03	
Solid Content	%	52±2	by volume
Elongation at Break	%	>250	ASTM D412
Tensile Strength	N/mm^2	>2.0	ASTM D412
Rain Resistant	hours	~6	at 25°C
Full Cure (after the final coat)	hours	~48	at 25°C
Application Conditions	°C	+8 to +35	ambient temperature
	°C	+8 to +35	substrate temperature
	%	≤ 80	relative humidity (RH)
	°C	3	above dew point
	%	< 6	substrate moisture content

Product Characteristics for MC-Proof 2110 UV	
Colour	White and grey
Delivery	20 kg pail
Storage	Can be stored in cool and dry conditions for ***12 months*** in original unopened packs.
Disposal	In the interest of the environment, please empty all containers completely & in accordance with the local regulations.

Safety Advice

1. Fire : Non-flammable
2. Skin : Wear gloves. If contact occurs, wash with soap and water.
3. Eyes : Wear goggles. If eyes become contaminated, irrigate with copious amounts of water and seek medical assistance immediately.
4. Ensure adequate ventilation during use.

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