



# MC-Proof eco (formerly Expert Proof eco)

## Fast hardening, flexible and bituminous-free, economical two-component waterproofing

### Product Properties

- Flexible polymer thick coating with ETA assessment (ETA-18/0324)
- Fast drying including colour control
- High UV- and frost-resistance, resistant to ageing
- Crack bridging exhibiting a high flexibility
- Trowel- and spreadable consistency (e.g. wide brush), sprayable (spiral pump)
- Application without priming; can be painted and plastered over
- Slows carbonation and chloride-proof
- Storable up to -5 °C

### Application Areas

- Sealing of vertical, horizontal and inclined surfaces (basement walls, terraces, foundations, base plates)
- Refurbishment and reengineering of old waterproofing
- Sealing of pre-pend / movement joints at water resistant concrete
- Plinth sealing in splash water areas
- Installation of protection and drainage boards

### Application Notes

#### Substrate preparation

MC-Proof eco can be applied to all mineral substrates. The substrate has to be clean, frost-free, dry, free from any contamination (e.g. dust, demoulding agent, cement), and free from surface pockets, gaping cracks or ridges. Recesses > 5 mm have to be filled and closed with a suitable barrier mortar (e.g. Nafuquick). In the area of floor to wall connections a concave sealing groove with a mineral mortar (e.g. Nafuquick) has to be created. Before applying a scratch coat, pre-wetting of mineral substrates is necessary. Additionally, on mineral substrates a scratch coat or a first thin layer has to be applied utilizing a wide brush.

#### Application

Both components of MC-Proof eco are mixed at a 1:1 ratio into a homogenous paste utilizing an anchor-shaped agitator at slow rotation rate for at least 3 minutes. **Please note that for optimal mixing of both components the mixing time has to be strictly followed.** MC-Proof eco is applied evenly and pore-free to the substrate in two layers using a trowel, wide brush or smoothing trowel. At least two layers are required and applied fresh in fresh. The layer thickness depends on the potential water loading. A maximum wet layer thickness of approx. 6 mm should be applied.

Additionally, application with a spiral pump is possible. For details, please ask our application technicians.

For sealing of pre-pend and movement joints at building structures consisting of water resistant concrete, MC-Proof eco is applied in two layers with a width of 30 cm in total across both sides of the joint. In between both layers, the reinforcement Nafuflex Grid 25 NF has to be included.

#### After Treatment and Protection

Protect MC-Proof eco from rain until it has developed its rain resistance. Water penetration and frost exposure must be prevented until the coating has dried out completely. Drying should be destructively tested on a reference sample which was stored in the excavation pit. Refilling of the excavation pit is only possible after complete drying.

#### Further information

MC-Proof eco should not be applied on surfaces which get warmer during application. Interruptions of work require MC-Proof eco to be drawn out to zero. Continuous work has to be started overlapping. If there are interruptions, avoid them at edges or corners. When applied in confined spaces the supply of fresh air is required.



## Technical Data for MC-Proof eco

Characteristic	Unit	Value	Comments
Colour			grey
Density	kg/dm <sup>3</sup>	1.18	Mixed material
Diffusion resistance against carbon dioxide		118,000	coefficient of resistance $\mu$
Mixing ratio		1 : 1	Liquid component : powder component
Processing time	minutes	40 - 60	at 23 °C and 50 % relative humidity
Processing conditions	°C	+1 - +30	Air- and substrate temperature*
Drying	hours	24	at 23 °C and 50 % relative humidity Depending on temperature, humidity, substrate and wet layer-thickness, the drying time is either shortened or extended.
Rain-resistant after	hours	4	at 23 °C and 50 % relative humidity
Compressive resistance	N/mm <sup>2</sup>	~2.5	
Coverage			Wet layer-thickness
	kg/m <sup>2</sup>	2.7	2.3 mm
	kg/m <sup>2</sup>	3.3	2.8 mm
	kg/m <sup>2</sup>	4.0	3.3 mm
			Dry layer-thickness
			2 mm (soil moisture)
			2.5 mm (pressing water)
			3 mm (waterproof concrete)

## Product Characteristics for MC-Proof eco

Form of delivery	20 kg bucket 1 pallet (12 buckets of 20 kg)
Storage	Can be stored for at least 12 month in original unopened packs under dry conditions. Protect from frost!
Disposal	To protect our environment please empty the packs completely.

Certified as mineral sealing slurry

Coating as "surface protection product for concrete" according to DIN EN 1504-2

Certificate for harmless hygienic use in contact with ground water according to DIBT-guidelines

Tested and certified as waterproofing for the transition zone of building elements consisting of water resistant concrete with high resistance to pressing water penetration following DIN 18195 - PG-ÜBB

Property specifications are based on laboratory tests and may vary in practical application. To determine the individual technical suitability, preliminary suitability tests should be carried out under the application conditions.

\* The surface has to be frost-free. During the drying process the material has to be protected from frost.

**Note:** The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 01/20. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.