

## ElaProof

ElaProof is a water based polymer emulsion consisting of REACH-approved \*) raw materials. It is completely solvent and toxin free and contains no substances harmful to humans, nature or structures.

ElaProof adheres to any kind of fast surfaces - fast, porous or net-like – moist or dry.

\*) REACH (Registration, Evaluation, Authorization and Restriction of Chemical substances) is the European Community Regulation on chemicals and their safe use ([EC 1907/2006](#)).

### Applications

- waterproofing and sealing
- elastic surfacing
- stopping rust and weathering of concrete or repair of corrosion damage
- repair and bridging of holes, cracks etc.
- bonding of different types of materials (e.g. timber and concrete)
- mould prevention and removal

### Specification

Due to the morphology of its polymer particles cured\*\*) ElaProof forms durable, elastic, breathing membrane that adapts to the thermal and moisture movements of surfaces without peeling.

Based on Arrhenius principle and experiences, the lifetime of ElaProof surface is over 80 years.

\*\*) curing is removal of water

Solids content,	61 ± 1 %
pH	6.5 – 7.5
Density approx.	1.0 g/cm <sup>3</sup>
Colour	black
Flash point	does not flash
Flammability	does not ignite
Water solubility	miscible
Minimum film formation temperature (MFFT)	< 0°C (< 32 F)
Drying (curing) time (20°C, 1 kg/m <sup>2</sup> )	1 – 2 h (depending on the base material)
Bonding strength (on concrete 20°C) approx.	1.0 N/mm <sup>2</sup>
Crack bridging (20°C, thickness 0,6 mm) approx.	10.3 mm (0,4")
Water vapor permeability	7.21x10 <sup>-14</sup> kg/(m • s • Pa)
Boiling point approx.	100°C (212 F)
Hardening (/softening) temperature	-27°C (-16F)
Max use temperature (> 24 h) approx..	190°C (370F)
Weather resistivity ((UV, thermal stresses, moisture)	Excellent
Chemical resistivity	Good – except strong inorganic acids and organic solvents

ElaProof surface can – if needed - be

- painted, plastered, asphalted, plated and tiled (except tiling in continuous underwater use)

\* reinforced with nets or fabric material (like fiberglass, non-woven, filter cloth and rock wool)

### Packaging, storage & safety

ElaProof should be kept in tanks of steel, aluminum or plastic.

ElaProof is stable under normal conditions and the product can be stored for twelve months.

The containers should be kept closed to prevent evaporation of the water and the formation of a skin on the surface.

The product should not be exposed to frost, to temperatures exceeding 40°C or to direct sunshine.

For safety issues, please refer to the material safety data sheet.

### Technical Service and additional data

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