



ElaProof is a water based, one-component polymer emulsion consisting of REACH-approved*) raw materials. It is completely solvent-free and contains no substances that are harmful to humans, nature, or constructions. ElaProof adheres to many kind of surfaces - fast, porous or net-like – moist or dry. The coating is usually applied to 1 mm thickness (dry film) corresponding to approximately 1,6 l/m² of spreading rate (wet film).

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

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)

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 the Arrhenius principle, multiple tests and use experiences, the lifetime of ElaProof protective surface can reach over 80 years.

**) curing is removal of water

ElaProof coating gel (prior to application)	
Solids content	63 ± 1 %
pH	7.0 – 8.0
Density approx.	n. 1.07 g / ml
Color	black
Flash point	does not flash
Flammability	does not ignite
Boiling point approx.	n. 100 °C (212 °F)
Water solubility	miscible (adding water is not recommended)
Minimum film formation temperature (MFFT)	< 0°C (< 32 °F)
Drying time (+20°C, 45% RH, 1.6 kg/m ²)	
• touch dry	3-4 hours
• full mechanical properties	3 weeks

Dry ElaProof coating (after application)	
Typical adhesion strength, without primer	1-4 N/mm ² (depending on the substrate)
Crack bridging (+22°C, 50 % RH, paksuus 0,6 mm) approx.	10.3 mm (0.4")
Water vapor permeability coefficient	7.21x10 ⁻¹⁴ kg/(m • s • Pa)
Water vapor permeability	18 g / m ² / day
Reaction to fire	C-s1 d0
Temperature resistance	-30°C - +150°C
Weather resistivity (UV, thermal stresses, moisture)	excellent
Chemical resistance	excellent alkali resistance, good acid resistance, limited resistance to organic solvents

IF NEEDED, DRY ELAPROOF SURFACE CAN 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 AND SAFETY

ElaProof can be stored 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 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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