

ElaProof H is a ready-to-use one-component hand-applied elastomer suitable for most surfaces in exterior structures. It provides a long-lasting and waterproof protective layer for most building materials, such as sheet metal and felt roofs, wood, concrete and lightweight gravel blocks. The applications of ElaProof H are e.g. roofing, patching and refurbishment, and protection of plinths and external structures. It is also ideal for rehabilitating rainwater systems and sealing penetrations and joints.



PREPARATIONS

- Clean the surface carefully of dirt, sand, grease, loose water, organic vegetation, old layers of paint or coatings and other frail material.
- Depending on the condition of the surface, use a high-pressure washer or a brush for cleaning.
- It is recommended that porous surfaces, such as concrete, are prepared by applying ElaProof Primer for securing optimal adhesion and tightness of the coating.
- When needed, use protective equipment. ElaProof as such is safe but it is always strongly recommended to use e.g. eye protection and safety equipment when working on roofs.

SEALING OF HOLES AND CRACKS

- Smaller holes and cracks can be filled and covered with ElaProof without special preparations.
- For larger holes and cracks (over 2 mm wide, over 5 mm deep) use of ElaProof Base Fabric is recommended. First spread ElaProof on the edges of the hole or crack. Then press nonwoven into the moist ElaProof mass. Ensure with a trowel or a spatula that there are no wrinkles in the nonwoven and it is firmly attached to the ElaProof mass. Finally, spread another layer of ElaProof over the nonwoven before or after the first layer has dried.

APPLICATION

- Usage temperature (the air and surface) over +10°C and relative humidity of less than 80%.
- ElaProof H can be applied easily with hand tools such as spatula or short-hair brushes.
- The right amount of ElaProof for surface-covering coating depends on the evenness and porosity of the surface. For smooth surfaces an average of 1.0 l / m² is required, whereas approx. 1.8 l / m² is required for rough concrete surfaces. Sufficient coating thickness secures its

long-term durability - the recommended thickness of the dry film is 1mm.

- ElaProof H can be applied in one or several layers. It can be applied also on damp or rusty underlayer.

DRYING

- The ElaProof H coating compound dries by evaporating water.
- The drying time depends on the layer thickness, the ambient temperature and relative humidity, dew point, and the absorbency of the surface to which the mass has been applied.
- Please see drying times from technical information on page 2.

TOOL CLEANING AND WASTE HANDLING

- Wash the tools and surrounding surfaces with water immediately after application. After drying, cleaning of ElaProof can be done mechanically (e.g., the spatula can be cleaned with a knife) or with organic solvents (e.g., xylene).
- ElaProof H packaging can be disposed as energy waste. Dried ElaProof can be disposed as normal mixed waste.

PLEASE NOTE!

- Store ElaProof H in temperatures between +10°C ... +40°C and protected from direct sunlight. The product must not freeze before use.
- ElaProof H can be stored unopened for minimum 12 months. After use, close the bucket carefully for maximising the storability of the remaining coating mass.
- A dried ElaProof H coating can be painted with elastic, waterborne, breathable paints. It is advisable to test the compatibility of ElaProof and a specific paint in advance.
- More technical information is available from info@buildcare.fi.
- ElaProof H is listed in the Nordic Ecolabelling construction product database and can be used in Swan-labeled buildings.



Technical information

SPECIFICATIONS (WET PRODUCT) • STANDARD

Binding agent: waterborne polymer dispersion

Colours: black, grey, red, RR11, RR23 and RR32 – can be painted over¹⁾

The product is CE marked as a construction product in accordance with the harmonized product standards EN 13813 and EN 1504-2

Dry matter content: 63 ± 1 % • ISO 3251:2008

Acidity (pH): 7-8

Density: 1,12 ± 0,3 g/ml • ISO 2811-1:2016

Flammability: does not ignite, does not flash

Minimum Film Formation Temperature (MFFT): < 0°C

Operating temperature: over +10°C

Drying time

• Touch dry (+20°C, 50% RH, 1,5 l/m²) 3 - 4 h

• Touch dry (+6°C, 25% RH, 1,5 l/m²) 40 h

• Fully dry (+20°C, 50% RH, 1,5 l/m²) 1 vrk

• Full mechanical properties (+20°C, 50% RH, 1,5 l/m²) 3 weeks

Storage time: min. 12 months (see package for manufacturing date)

Storage: Product must not freeze. Protect for direct sunlight.

¹⁾ Can be painted over with most water-based, breathable and elastic paints.



FEATURES (COATING) • STANDARD

Fire class: C-s1,d0 and BROOF (t2) • EN 13501-1 and -5

Adhesion strength, without primer: 1 - 4 N/mm² • EN 1542:1999

Tensile strength: 2,3 N/mm² • ISO 527-1:1993

Elongation at break: 810 % • ISO 527-2 applying

Tear strength: 9,3 ± 1,3 MPa/m² • ISO 527-1:1993

Shore A hardness: 54 ± 4 • EN 868:2003

Wear resistance: <3000 mg EN ISO 5470-1 (Taber wear test)

Impact resistance: class I • EN ISO 6272-1

Crack bridging ability

• 10,1 mm [+22°C, 50 % RH, thickness 0,6 mm] • EN 1062-7, method A applying, class A5

• approved [-20°C, thickness 0,6 mm] • EN 1062-7, method A applying, class A4

Water vapor permeation: 18 g / m² / day • EN 12572

Water vapor diffusion coefficient: δ, kg/(m·s·Pa) 9,63·10⁻¹³ • EN 12572

Diffusion resistance, S_d-value: 2,02 • EN 12572

Water tightness (+20°C, 14 day, 100 mm water immersion): tight • EN 1928

Water resistance after alkaline stress

(+70oC, 168 day: 50 mm kylL. Ca(OH)₂ solution: tight • EN 1928

Structure tightness

The water tightness of floor drain and inlets:

(Vieser-floor drain, water pressure test 24 h ca. 700 Pa -> +60°C/+15°C, 1500 times -> water pressure test 24h ca. 700 Pa): **tight** • EN 1253-2

Temperature resistance

• Long term: -30°C ... +150°C

• Short term: max. +190°C

Weather resistance (UV, thermal and moisture resistance): excellent

Chemical resistance

• Excellent alkaline resistance

• Good inorganic acid resistance

• Limited resistance to organic acids and solvents

Electrical conductivity: does not conduct electricity

ElaProof H products

ElaProof	Colour	EAN/GTIN	CODE
H 1 l	Black	6430068690006	1010
	Grey	6430068690143	1010G
	Red	6430068690150	1010R
H 5 l	Black	6430068690013	1050
	Grey	6430068690181	1050G
	Red	6430068690198	1050R
H 15 l	RR11 - Green	6430068690761	1050RR11
	RR23 - Dark grey	6430068691119	1050RR23
	RR32 - Brown	6430068690778	1050RR32
	Black	6430068690020	1150
H 15 l	Black	6430068690020	1150
	Grey	6430068690204	1150G
	Red	6430068690211	1150R
	RR11 - Green	6430068690785	1150RR11
H 15 l	RR23 - Dark grey	6430068691126	1150RR23
	RR32 - Brown	6430068690792	1150RR32
Sealing Package 3 l ¹⁾	Black	6430068690334	1030BTP

¹⁾ Sealing package includes:

ElaProof H, black 3 l • Base fabric 4 m x 100 mm • Installation instructions

PLEASE NOTE!

Colours are as close to the correct shade as it is technically possible.

