

IN FINLAND

# **ELAPROOF**<sup>™</sup>



# ElaProof coating and sealing solutions

The most environmentally friendly and multipurpose elastic protective coating and sealing mass on the market!



# The patented ElaProof products pro protection for your buildings



#### Environmentally friendly and easy to use ElaProof coating provides elastic protection for decades!

ElaProof's success story began in Turku in 1990, when Build Care Oy was founded. At the time, Vesa Koponen, graduate engineer in chemistry, the inventor of the product, sold solutions to the most demanding waterproofing and corrosion problems on the market as an entrepreneur. However, he was not happy with the products on the market. The insulation capacity of the products did not last long in the demanding weather conditions of the north. Toxic solvents caused health risks to both workers and building users. Adhesion of the products was also not reliable for all materials or to wet surfaces.

#### From the garage to the international market

Vesa's more than ten years of development have resulted in a completely new range of products based on polymer chemistry innovation that offers a better solution for coating and waterproofing needs.

After thousands of demanding tests, we launched a solvent-free and elastic protective elastic ElaProof product family that has been proven to work in numerous pilot sites. Product development, manufacturing and marketing will continue, valuing environmental friendliness, reliability, and ease of use.

#### Secured by patents

The backbone of the company's operations is the patented breathable ElaProof technology, which is based on a pioneering innovation in polymer chemistry. ElaProof has been granted product and method patents in Finland. In addition to Finnish patents, the product has an EU product patent and international patents are pending.

#### Listening to the market

Environmentally friendly, safe and easy to use, ElaProof products extend the life of buildings and structures for decades. This has also been noticed by our customers thank you very much!

Listening to customer feedback, we have continued to develop ElaProof products. CE approvals in the construction industry are one big part of this work. ElaProof H, S and Indoor have received CE EN 1504-2 approval for the protection and repair of concrete structures.

ElaProof withstands heat and its effectiveness as a waterproofing under asphalt has also been proven by laboratory tests. As you can probably guess, the results were very good and open new opportunities for our customers in waterproofing yards and car parks - safely and environmentally friendly.



# ovide the best



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CEO Jarno Kontio - Build Care Oy

#### New products and systems

As new value-added products, you will find in our selection e.g. ElaProof + SAND and suitable ElaProof TopCoats. In addition to the product range, we have also developed systems related to the use of ElaProof products. I recommend getting acquainted with the ElaProof BTR (Balcony and Terrace Repair) System. It offers almost limitless possibilities for carrying out balcony and terrace renovations in a customer- and environment-friendly manner.

#### **Responsibly towards the future**

Recently environmental values and responsibility have risen in value among our customers. We are proud that the isocyanate-free ElaProof products are part of Ostavastuullisesti.fi responsible selection, because Finland's leading experts have assessed them to be a more sustainable choice.

#### Product information 24/7/365

You can always find up-to-date product information and work instructions on our website: www.elaproof.com. Also check out the videos on our YouTube channel. I wish you inspiring moments with our brochure. Try ElaProof for your next project - I promise you will like it!

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## **10** good reasons to seal and coat with ElaProof H!

- **CE** EN 1504-2
- **CE** EN 13813



- Economical one-component product
- C Elastic coating and sealant for most building materials
- O The best crack bridging ability on the market over 10 mm!
- C Resistant to water and frost, the product can also be applied to wet surfaces
- Quick and easy installation with traditional hand tools
- Finnish product made for demanding Nordic weather conditions
- Excellent adhesion to almost all building materials
- CE markings: EN 1504-2 and EN 13813
- The product is isocyanate- and solvent-free and its pH is neutral no special protective equipment required for handling the product
- The most multipurpose elastic protective coating and sealing mass on the market

## elaproof.com











**RR32** 





### oor use!

# ELAPROOF

Whether you're renovating an old one or building a new one, the Finnish isocyanate-free ElaProof H offers the perfect solution for your real estate needs. ElaProof H is listed in the Nordic Ecolabelling construction product database and can be used in Swan-labeled buildings.

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.

#### ElaProof H products

ElaProof	Colour	EAN/GTIN	CODE
H1L	Black	6430068690006	1010
	Grey	6430068690143	1010G
	Red	6430068690150	1010R
H 5 L	Black	6430068690013	1050
	Grey	6430068690181	1050G
	Red	6430068690198	1050R
	RR11 - Green	6430068690761	1050RR11
	RR23 – Dark grey	6430068691119	1050RR23
	RR32 - Brown	6430068690778	1050RR32
H 15 l	Black	6430068690020	1150
	Grey	6430068690204	1150G
	Red	6430068690211	1150R
	RR11 - Green	6430068690785	1150RR11
	RR23 – Dark grey	6430068691126	1150RR23
	RR32 - Brown	6430068690792	1150RR32
Sealing Package 3 l*	Black	6430068690334	1030BTP

#### <sup>\*)</sup> 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.









## **Technical information**

#### **SPECIFICATIONS (WET PRODUCT) • STANDARD**

**Binding agent:** waterborne polymer dispersion **Colours:** black, grey, red, RR11, RR23 and RR32 – can be painted over<sup>\*</sup>) **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.
 \*) 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/mm<sup>2</sup> • EN 1542:1999 Tensile strength: 2,3 N/mm<sup>2</sup> • ISO 527-1:1993 Elongation at break: 810 % • ISO 527-2 applying Tear strength: 9,3  $\pm$  1,3 MPa/m<sup>2</sup> • ISO 527-1:1993 Shore A hardness: 54  $\pm$  4 • EN 868:2003 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 / m<sup>2</sup> / day • EN 12572

Water vapor diffusion coefficient: δ, kg/(m·s·Pa) 7,21·10<sup>-14</sup> • EN 12572

Diffusion resistance, Sd-value: 1,14 • EN 12572

Water tightness (+20°C, 14 day, 10 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

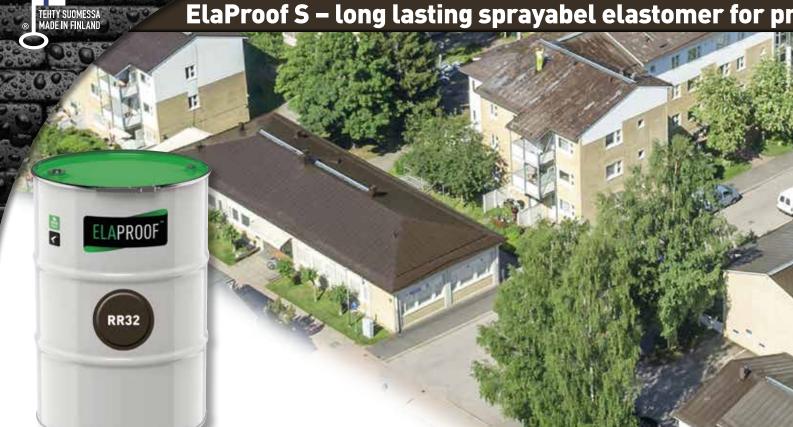
Weather resistance (UV, thermal and moisture resistance): excellent Chemical resistance

- Excellent alkaline resistance
- Good inorganic acid resistance
- Limited resistance to organic acids and solvents

Electrical conductivity: does not conduct electricity



Instructions for use in the package!



# **10** good reasons to choose ElaProof S!

- **CE** EN 1504-2
- Economical one-component product
- Breathable vapor open and still water and airtight
- The best crack bridging ability on the market over 10 mm!
- **CE** EN 13813
- ELAPROOF BROOF (12) Strange (12
- Resistant to water and frost, the product can also be applied to wet surfaces
- Quick and easy installation with high pressure spraying equipment's
- The coated surface has no joints can be sprayed on surfaces in all positions
- Excellent adhesion to almost all building materials
- CE markings: EN 1504-2 and EN 13813
- Isocyanate- and solvent-free safe for the installer and the environment
- The most multipurpose elastic protective coating and sealing mass on the market

## elaproof.com











**RR32** 

## ofessional use!

# **ELAPROOF**<sup>™</sup>

The renovation is a life-cycle-friendly climate act, says a study conducted by Tampere University of Technology and VTT <sup>\*1</sup>. According to it, renovation is a better solution in terms of carbon footprint and life cycle economy than demolition and construction of a new one.

When repairing an old one or building a new one, the Finnish isocyanate-free ElaProof S spraymass offers the perfect solution for your property needs. It is an economical, durable, and long-lasting one-component sprayable elastomer for professional use. The product is ideal for water and moisture insulation as well as sealing in buildings and structures. Applications indoors and outdoors e.g. roofs, plinths, sawmill dryers, damp rooms, courtyards and lightweight gravel and gypsum board surfaces. ElaProof S is listed in the Nordic Ecolabelling construction product database and can be used in Swan-labeled buildings.

## ElaProof S products

ElaProof S	Colour	EAN/GTIN	CODE
Spraymass 160 l	Black	6430068690068	2160
	Grey	6430068690266	2160G
	Red	6430068690273	2160R
11. 1	RR11 - Green	6430068690709	2160RR11
	RR23 - Dark grey	6430068691133	2160RR23
	RR32 - Brown	6430068690693	2160RR32

<sup>\*)</sup> The release is available in Finnis in its entirety at http://urn.fi/URN:ISBN:978-952-361-221-1

Delivery time for ElaProof S is approx. 2 weeks from the order or by agreement.

#### PLEASE NOTE!

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









## **Technical information**

#### SPECIFICATIONS (WET PRODUCT) • STANDARD

Binding agent: waterborne polymer dispersion
Colours: black, grey, red, RR11, RR23 and RR32 – can be painted over"
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</li>
Operating temperature: over +10°C
Drying time
Touch dry (+20°C, 50% RH, 1,5 I/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/m<sup>2</sup>) 3 weeks Storage time: min. 12 months (see package for manufacturing date) Storage: Product must not freeze. Protect for direct sunlight. <sup>\*)</sup> 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:  $1 - 4 \text{ N/mm}^2$  • EN 1542:1999 Tensile strength: 2,3 N/mm<sup>2</sup> • ISO 527-1:1993 Elongation at break: 810 % • ISO 527-2 applying Tear strength: 9,3 ± 1,3 MPa/m<sup>2</sup> • ISO 527-1:1993 Shore A hardness: 54 ± 4 • EN 868:2003 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:  $\delta$ , kg/(m·s·Pa) 7,21·10<sup>-14</sup> • EN 12572 Diffusion resistance, Sd-value: 1,14 • EN 12572 Water tightness (+20°C, 14 day, 10 mm water immersion): tight • EN 1928 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





- Elastic coating and sealing compound for most building materials
- M1-emission class and Emicode EC 1
- The best crack bridging ability on the market 13,9 mm!
- Resistant to water and frost, can also be applied to wet substrates
- Quick and easy installation available as hand and spray mass
- Quality product made in Finland
- An economical one component product
- Excellent adhesion to almost all building materials
- Isocyanate- and solvent-free safe for the installer and the environment

















It is vital to ensure clean and healthy indoor air both in new constructions and renovation. Sealing joints and air leaks and protecting against radon often prove to be the most critical aspects of structural maintenance.

Isocyanate free ElaProof Indoor is a ready-to-use one-component water-based coating for indoor air sealing and protection against radon. The unique elasticity and excellent adhesion of the product on various surfaces ensure safe and secure sealing. ElaProof Indoor is listed in the Nordic Ecolabelling construction product database and can be used in Swan-labeled buildings.

Please also check out the ElaProof indoor air solutions brochure! There you will find instructions for indoor air sealing and radon protection, as well as for managing contaminants and moisture rising from the substrate.

#### ElaProof Indoor products

ElaProof	Colour	EAN/GTIN	CODE
Indoor 5 l	White	6430068690310	3050W
	Grey	6430068690235	3050G
Indoor 15 l	White	6430068690327	3150W
	Grey	6430068690242	3150G
Indoor S - Spraymass 160 l *)	White	6430068690303	4160W
	Grey	6430068690297	4160G
	Black	6430068690280	4160
Sealing Package 5 l **)	White	6430068690341	3050WTP
	Grey	6430068690358	3050GTP

 $\ensuremath{^*\)}$  Delivery time for ElaProof Indoor S is approx. 2 weeks from the order or by agreement.

- \*\*) ElaProof Indoor Sealing package includes: ElaProof Indoor 5 l, white or grey
- ElaProof Primer 3 l Base fabric 50 m x 100 mm Installation instructions

#### PLEASE NOTE!

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



#### Instructions for use in the package!









#### **Technical information**

#### **SPECIFICATIONS (WET PRODUCT) • STANDARD/METHOD**

Binding agent: waterborne polymer dispersion **Colours:** black, grey and white – can be painted over\* Products: hand spreadable elastomer, sprayable elastomer Adhesion to base materials: all construction materials, e.g. all concrete based, metal, aluminium, construction plates, glass, wowen materials Dry matter content: 64 ± 1 % • ISO 3251:2008 Acidity (pH): 7-8 Recommended dry film thickness: • Air sealing min. 0,5 mm • Radon barrier min. 0,8 mm Operating temperature: over +10°C Drying time: (+20°C, 50% RH, 1,0 l/m<sup>2</sup>) 3 - 4 h (depending on the substrate) Adhesion strength: 1-4 N/mm<sup>2</sup> (depending on the substrate) EN 1542:1999, EN ISO 4624 Elongation at break: 1135 % • ISO 527-1:1993 Crack bridging ability: • 13,9 mm (+22°C, 50% RH, thickness 0,6 mm) • EN 1062-7, method A applying, class A5 Tear strength: 9,3 ± 1,3 MPa/m<sup>2</sup> • ISO 527-1:1993 Water vapor permeation: \delta, kg/(m·s·Pa) 7,21·10<sup>-14</sup> • EN 12572 Fire class: C-s1,d0 • EN 13501-1 Air tightness: tight • Vahanen Ltd., 2018 Radon tightness: tight • SP Method 3873, RISE, Sweden, 2017 Emission classes: • M1 - smallest amount of emissions • Eurofins, Denmark, 2019 • Emicode EC1 - very low emissions • Eurofins, Denmark, 2019 **Storage time:** min. 12 months (see package for manufacturing date)

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

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





## Finished in style!

The patented ElaProof coating and sand in ElaProof + SAND products are ready to use. Precisely tailored blend ratios guarantee easy workability and a stylish result. The ElaProof + SAND product family includes easy-to-use products for finishing plinths and floor and wall surfaces. The advantages of ElaProof + SAND products are e.g., waterproofing in the selected location as well as a modern look. Choose your location, colour and grain size of the sand and start the project!

ElaProof + SAND Floor Covering is M1 approved. It is suitable for indoor and outdoor use e.g., terraces, stairs, balconies, and bathrooms. There are three grain sizes to choose from: fine, medium, and rough. The final surface is rough, comfortable underfoot and at the same time it also reduces the risk of slipping. On top of the coating, we recommend ElaProof TopCoat treatment to ensure that the object is kept clean. Also remember the RAL-tinted TopCoats, which can be used to add colour to the surface if necessary.



ElaProof + SAND Plinth Protection finishes concrete plinths and foundation walls outdoors. ElaProof + SAND Wall Covering is M1-approved and makes it easy and safe to make stylish effect walls, pillars, and bathroom decorations indoors and outdoors.

### ElaProof+SAND Floor Covering



ElaProof + SAND Floor Covering is suitable e.g., balconies, stairs, terraces and bathrooms.

Choose the right sand grain size for your project: • Fine\_\_\_\_\_

- Medium Rough
- Rough

M1)

Suitable for indoor and outdoor use - M1 rated!

Product	Colour	EAN/GTIN	CODE
Floor Covering 20 kg	Black	6430068690990	3200FBF
• Fine	Dark grey	6430068691003	3200FDGF
Sand Size: 0,05 - 0,2 mm	Grey	6430068691010	3200FGF
	White	6430068691027	3200FWF
Floor Covering 20 kg	Black	6430068691034	3200FBM
Medium Rough	Dark grey	6430068691041	3200FDGM
Sand Size: 0,1 - 0,6 mm	Grey	6430068691058	3200FGM
	White	6430068691065	3200FWM
Floor Covering 20 kg	Black	6430068691072	3200FBR
• Rough	Dark grey	6430068691089	3200FDGR
Sand Size: 0,7 - 1,2 mm	Grey	6430068691096	3200FGR
C. Store Marsh	White	6430068691102	3200FWR

### ElaProof+SAND Plinth Protection



ElaProof+SAND Plinth Protec tion is suitable for Concrete plinths and foundation walls for outdoor use.

The grain size of the sand (0.7 1.2 mm) is optimized for coating the plinths.

### ElaProof+SAND Wall Covering



ElaProof + SAND Wall Covering is suitable e.g., effective walls bathrooms, and pillars

Choose the right sand grain size for your project: Fine

Medium Rough

Rough

Suitable for indoor and outdoor use - M1 rated!

M1)

En la Martine	ALC BULL PROPERTY OF	5 C R P S S L
Colour	EAN/GTIN	CODE
Black	6430068690839	1200PB
Dark grey	6430068690846	1200PDG
Grey	6430068690853	1200PG
White	6430068690860	1200PW
	Black Dark grey Grey	Black         6430068690839           Dark grey         6430068690846           Grey         6430068690853

**ELAPROOF**<sup>™</sup>

+ SAND

Product	Colour	EAN/GTIN	CODE
Wall Covering 20 kg	Black	6430068690877	3200WBF
• Fine	Dark grey	6430068690884	3200WDGF
Sand Size: 0,05 - 0,2 mm	Grey	6430068690891	3200WGF
20.00.00.0000	White	6430068690907	3200WWF
Wall Covering 20 kg	Black	6430068690914	3200WBM
Medium Rough	Dark grey	6430068690921	3200WDGM
Sand Size: 0,1 - 0,6 mm	Grey	6430068690938	3200WGM
CARENCE T	White	6430068690945	3200WWM
Wall Covering 20 kg	Black	6430068690952	3200WBR
• Rough	Dark grey	6430068690969	3200WDGR
Sand Size: 0,7 - 1,2 mm	Grey	6430068690976	3200WGR
STREET E	White	6430068690983	3200WWR

#### Coloured sands and flakes for indoor and outdoor use



The ElaProof Art & Deco Colour Chips is a stylish 3-color alter-native for many destinations. Suitable for indoor and outdoor e.g., on the floor, stairs, terraces, and balconies. In industrial sites, e.g., AC engine rooms. A convenient package of 600 g is sufficient for an area of 8-12 m depending on the application

Dark

Grev

EAN/GTIN CODE ElaProof Art&Deco 6430068690402 8000 3-colour Colour Chips 600 g (black, white, grey) PU coloured sand 25kg Black 908 6430068690525 89081 For professionals Dark Grey 252 6430068690532 82521 Grey 003 6430068690549 80031 White 008 6430068690556 80081 PVA Colour Chips 20 kg 3-colour 6430068690563 80001 **PVA Colour Chips 1 kg** 3-colour 6430068690730 80001KG





ElaProof + SAND: see grain size in table | Coverage approx. 4-8 m<sup>2</sup> Art & Deco Color Chips: flake size 0.2 - 0.5 mm | Coverage 0.6 kg 8-12 m<sup>2</sup> PU coloured sand: grain size 0,7 to 1,2 mm | Coverage approx. 8 m<sup>2</sup> PVA flake: flake size 0,2 to 0,5 mm | Coverage 20 kg 280-400 m2 • 1 kg 15-22 m<sup>2</sup>

#### PLEASE NOTE!

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





## ElaProof BTR system makes balcony and terrace renovations easy!

Whether repairing the old or building a new one, the ElaProof BTR (Balcony and Terrace Repair) system offers complete solutions for balconies, terraces, stairs and walkways. The overall economic system is based on the patented, isocyanate-free ElaProof technology, which guarantees many advantages in addition to the waterproofing of the site. These are e.g. excellent resistance to UV radiation, radon protection and surfaces resistant to wear and continuous walking. Wide range of different methods, materials and colours give your end-customers the desired freedom of choice.

Outdoors, the wood and concrete structures of terraces and balconies are exposed to high stress. With the ElaProof BTR system, you protect structures from large temperature fluctuations and stresses caused by water and ice. Living comfort is a priority for people living on the site during the terrace and balcony renovation. By choosing the ElaProof BTR system, your customers can enjoy not only an environmentally friendly and odorless product, but also a fast and cost-effective renovation.











#### Choose the right BTR system according to the construction site and the customer's wishes

# **ELAPROOF**

Environmentally friendly product -

guaranteed living

renovation

Excellent

**UV** protection

The smooth or

even when wet.

textured ElaProof

surface is not slippery,

comfort even during



#### ElaProof Light

In addition to ElaProof coating, a surface material chosen by the customer, such as a wooden rally or tile, is installed on the site. The coating can also be painted with most waterborne and breathable paints.



#### ElaProof Medium

The site is coated with ElaProof and treated with ElaProof TopCoat or PU-Sealer, which increases the wear time and makes the surface easier to clean.





market - more than 10 mm!

The benefits of the system:

Water-based and

isocyanate-free

1-component

mixing before installation

does not require

Surfaces treated

Sealer are easy to

keep clean.

with TopCoat or PU-

product



TOXIC

Excellent resistance to cold and hot temperatures



#### ElaProof Medium RAL After ElaProof coating, the site is treated with ElaProof TopCoat or PU-Sealer tinted in RAL colors according to the customer's wishes.



Fire class EN 13501-1 and CEN TS 1187:2012



Excellent adhesion for most building materials

#### ElaProof Art&Deco

ElaProof Art & Deco Color Chips or PU sand are sprinkled on top of the ElaProof coating. The final surface is treated with ElaProof TopCoat or PU-Sealer.



#### ElaProof+SAND

The site is coated with the ElaProof + SAND product chosen by the customer, in which the sand and ElaProof are pre-mixed in the correct proportions. If necessary, the final surface is treated with ElaProof TopCoat or PU-Sealer.





## ElaProof TopCoat protects the surface and makes cleaning easy!

The 2-component varnishes in our range protect the treated ElaProof surface. We recommend ElaProof TopCoat varnishes to destinations with a lot of walking and require easy cleaning.

Colorless ElaProof TopCoat fits perfectly on top of ElaProof + SAND and Art & Deco Color Chips. ElaProof TopCoat RAL is well suited for spaces where the customer is expected to meet the company's well-thought-out brand image. There are currently over a hundred different RAL colors available, of which we have included the ten most popular in the standard selection - choose yours!





### ElaProof TopCoat

ElaProof TopCoat is a 2-component colourless, silkmatt topcoat for ElaProof surfaces. The product is supplied in 2-component packs with components A and B in the correct mixing ratio.

Consumption of the product on a smooth and flaked surface 90-110 g  $/m^2$ , on top of ElaProof+SAND 150-200 g  $/m^2$ . In packages a total of 3.3 kg.

## ElaProof TopCoat RAL

ElaProof TopCoat RAL is a pigmented 2-component silkmatt topcoat for ElaProof surfaces. The product is supplied in 2-component packs with components A and B in the correct mixing ratio.

Consumption of the product on a smooth surface 90-110 g  $/m^2$ , on top of ElaProof+SAND 150-200 g  $/m^2$ . In packages total 3,375 kg.



ElaProof TopCoat products

Packaging (A+B): ElaProof TopCoat 3,3 kg • ElaProof TopCoat RAL 3,375 kg • PU-Sealer 11 kg • PU-Sealer RAL 9 kg

**Consumption**: on a smooth surface 90-110 g /m<sup>2</sup>, on top of ElaProof+SAND 150-200 g /m<sup>2</sup>.

# Concrete terrace: • ElaProof+SAND • ElaProof TopCoat

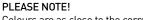
**ELAPROOF** 

TOPCOAT









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



#### ElaProof Primer

ElaProof PRIMER is environment-friendly, a water-based primer to improve the adhesion of the coating to porous materials before ElaProof coating.

The treatment improves the adhesion of ElaProof to the substrate and clogs the pores of the substrate. Air bubbles rising to the surface are often a sign of too little priming. Suitable for indoor and outdoor use.

### ElaProof Base Fabric

ElaProof Base Fabric for sealing and reinforcing corners, angles and lead-throughs as well as for patching holes in substrates to be coated.



ElaProof	Size	EAN/GTIN	CODE
Primer	31	6430068690129	7103
	10 L	6430068690136	7110
Base Fabric	100 mm x 50 m	6430068690044	7001
	200 mm x 50 m	6430068690051	7002



Instructions for use: elaproof.com

#### Accessories for contractors!

For authorized ElaProof contractors, our selection includes products suitable for roofing and contaminant encapsulation. Ask more about our technical support for products, tel. +358 20 790 2710 or e-mail: info@buildcare.fi

Product	Size	EAN/GTIN	CODE
Solvent Primer PU-P255 for porous roofing material	24 kg	6430068690686	71241
ElaProof ROOF Reinforce- ment Fabric, white, 100 g/m <sup>2</sup>	150 mmx50 m	6430068690808	701501
	350 mmx50 m	6430068690815	703501
	1000 mmx50 m	6430068690822	710001
Viasol EP-T703 epoxy primer for encapsulation	25 kg	6430068690747	807031
Viasol PU-C500 - RAL 3009 polyurethane coating	25 kg	6430068690754	830091

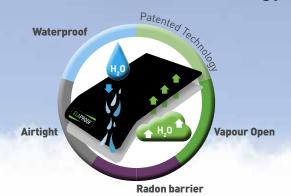








## Patented ElaProof Technology



ElaProof has been developed to withstand the extreme weather conditions of the Nordics. Its unique composition combines water and air tightness, radon protection and water vapor permeability. The product patent protects the composition of ElaProof. The method patent protects the method of manufacturing the product and the product made with it. Please watch a video about the patented technology on our YouTube channel!

#### ElaProof references!

ElaProof lasts! A variety of tests and user experiences have been gathered since 2005. Please go to www.elaproof.com and take a look of our references.



Please remember to visit our YouTube channel for ElaProof videos!





#### Old tin roof maintenance painting or coating?

ElaProof coating extends the life of the roof by decades. The coating is easy to implement and thanks to it, the roof is provided with a waterproof protective surface, and it can withstand demanding weather conditions of the Nordics!

	Painting	ElaProof coating
Waterproof	-	+
Crack bridging ability *)	-	10,1 mm
Installation times	2	1
Dry film thickness **)	80 µm (0,08 mm)	600 µm (0,6 mm)
Dry matter content	40 %	64%
UV-protection	+	+
Fire class	-	B <sub>ROOF</sub> (t2)
Surface slipperiness ***)	Slipper	Not slipper
Water-based product	+	+

\*) The crack bridging ability is of primary importance as it determines the ability of the elastic material to remain intact in the event of cracks or movements in the substrate.

<sup>\*\*]</sup> Normally the thickness of one paint film is approx. 40  $\mu$ m - the recommended dry film thickness is 50-80 µm. Compare film thickness:

80 µm vs. 600 µm

\*\*\*) The slipperiness of the paint surface can be reduced by adding 1/3 l of Anti-Slip Powder to 10 liters of paint. When using a non-slip, the treatment combination must have two coats of paint, the latter containing a non-slip.

The information in Tikkurila's Panssari Akva Product Data Sheet (March 16, 2021) has been used for the product comparison.





### Did you know that ElaProof coating is also easy to fix?

To ensure that the technical properties of the ElaProof coating work, we recommend that you check periodically at least at the following locations:

Roofing inspection in spring and autumn. Remove all debris and leaves from roof surfaces, bushings, and rainwater systems. If you notice external damage to the coating, proceed as follows:

- Remove the damaged ElaProof coating
- Recoat the area with ElaProof H.
- If necessary, use an ElaProof Support Fabric

Checking the plinth in the spring after the snow melts. In the spring, meltwater is absorbed into the soil around the house and frost has caused any damage. In addition to the plinth, it is worth checking the functionality of the drains and rainwater pipes. Follow the same practices as for roof inspection.

The bushings in the structures should be checked once a year and the necessary corrective measures taken.

#### Looking for an **ElaProof Contractor?**

AUTHORIZED **ELAPROOF** CONTRACTOR

Please contact us for your local **ElaProof Contractor:** • tel. +358 20 790 2710 • e-mail: info@buildcare.fi We will find the authorized ElaProof Contractor for your next project!

We reserve the right to make changes. © Build Care Ov



# **ElaProof information!**

ElaProof is a Finnish coating innovation that has been tested in several research institutes and universities, and has had long-term user experience in various applications since 2005.

## **ElaProof test results**

Tested feature	Test result
Crack bridging capabili- ty on concrete surfaces	<b>10,1 mm •</b> dry layer thickness 0,6 mm (1000 g/m², EN 1062-7)
A tile glued to concrete with ElaProof has an adhesion strength of (20°C)	0,93 – 1,3 N/mm²
Water vapor diffusion coefficient	Dry layer thickness 0,6 mm, EN 12572: <b>7,21 x 10</b> -14[δ = kg/[m • s • Pa]]
Water vapour resistance	Dry layer thickness 0,6 mm, EN 12572: <b>5,83 x 10</b> ° (Zp = m² • s • Pa/kg)
Diffusion resistance	Dry layer thickness 0,6 mm, EN 12572: <b>Sd-value: 1,14 m</b>
Airtightness	<b>Tight.</b> The airtightness of ElaProof has been studied by tracer studies by Vahanen Rakennusfysiikka Oy. The study found that ElaProof was airtight and worked well air sealing product.

## **Declaration of performance (DOP)**

**CE marking Research Institute and Test report number** Eurofins Expert Services Oy, No. 0809, performed product type testing for product properties, report number EUFI29-20002140-T1 and fire class testing, report numbers VTT-S-05022-17. ElaProof and ElaProof Indoor meet the requi-EN 1504-2 rements of the harmonized EU standard EN 1504-2: 2005. ElaProof has passed the tests required by the international CE CE mark. The testing was performed by the Institute of Polymer Products of Kiwa GmbH, one of Germany's leading research institutes, in accordance with the harmonised EU standard EN EN 13813

13813 (Test report P 10776-E / 28.4.2017).

#### **Radon gas permeability**

Radon gas permeability of ElaProof coating has been studied in Sweden by RISE (Research Institutes of Sweden AB). The method used was SP Method no. 3873.

The results are shown in the table below. Both measured values meet the values required for radon membranes by the Norwegian building research institute SINTEF Byggforsk (radon transmittance less than 2.10-8 m/s and resistance above 5 . 107 m/s). Based on the RISE measurement, ElaProof prevents radon gas leakage by more than 98%.

Thickness	Radon transmittance,	Radon resistance,
(mm)	P (m/s)	Z (s/m)
0,8 - 1,2	1,2 · 10 <sup>-8</sup>	8,5 · 10 <sup>7</sup>

## **Chemical Resistance Table**

Chemical (immersion stress test)	Chemical Resistance *1	
A multigrade oil	+++	
Liquid paraffin	+++	
Lighter fluid/lamp liquid	++	
Coolant	++	
Diesel	++	
Hydraulic oil	+++	
Brake and clutch fluid	-, does not withstand immersion stress	
Petrol 95	-, does not withstand immersion stress	
20 % salt solution (NaCl)	++	
3,5 % saltwater (NaCl)	++	
Chlorite (27 g/kg NaClO)	+	
Tall oil	-, does not withstand immersion stress	
Sunflower oil	++	
Silicone oil	+	
50 % sodium hydroxide	++	
20 % sodium hydroxide	+	
25 % ammonia	+	
10 % ammonia	++	
37 % hydrochloric acid	-	
18 % hydrochloric acid	+, discoloration	
5 % hydrochloric acid	++, discoloration	
10 % acetic acid	+	
10 % formic acid	-, does not withstand immersion stress	
Ethanol	-, does not withstand immersion stress	
Acetone	-, does not withstand immersion stress	
Toluene	-, does not withstand immersion stress	
++++ = excellent resistance (1 year, continuous stress)		

= lasts well (8 weeks, continuous stress)

= lasts moderately (1 week, continuous stress)

= does not last

Chemical stress tests have been performed by immersing ElaProof films in test fluids for 1 week, 8 weeks, or 52 weeks (= 1 year) at room temperature. The immersion stress test is a raw test for films because the chemical stress is continuous.

## **Fire classifications**

Fire Class	Classification	ELAPROOF
<b>C-s1, d0</b> (EN 13501-1)	European fire classification of construction products	BROOF (t2)
<b>В<sub>кооғ</sub> (t2)</b> (EN 13501-5)	Fire classification of coverings	

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MIRONME

**ELAPROOF**<sup>™</sup>

#### **Adhesion strength values**

Material	Adhesion strength (N/mm <sup>2</sup> = MPa)	
Cement board (old, without primer)	1,3 - 2,6	
Cement board (old, with ElaProof Primer)	2,2 - 2,4	
Fibre cement board (new)	3,2 - 3,7	
Old roof brick (without primer)	1,7 - 2,8 • brick cracks *)	
Old roof brick (with ElaProof Primer)	2,3 - 3,0 • brick cracks * <sup>1</sup>	
Roof brick (without primer)	2,1 - 3,0	
Roof brick (with ElaProof Primer)	1,9 - 3,7	
Bitumen felt with a smooth surface	0,5 - 0,7 • bitumen felt cracks *)	
Galvanized sheet metal (new)	2,0 - 3,5	
Galvanized sheet metal (old)	2,1 - 3,0	
Plastic coated sheet metal	3,0 - 3,5	
Lightweight concrete blocks	1,0 • block cracks *)	
Concrete slab (without primer)	1,7	
Concrete slab (with ElaProof Primer)	2,1 • concrete cracks * <sup>1</sup>	
Stone tile	3,2 - 3,5	
Chipboard	2,0 - 3,0 • board cracks *)	
Planed spruce	4,0 • board cracks *	
Aluminium Sheet, smooth, new	2,6 - 2,9	
Aluminium Sheet, structured, new	2,8 - 3,0	
Styrofoam	0,6 • little dolly, styrofoam cracks *)	
Glass fibre	2,7 - 2,9	
Glass	3,5 • glass breaks *)	
Thermoplastic elastomer (rubber)	0,8 - 1,0	
ABS plastic (Acrylonitrile butadiene styrene)	2,6 -3,0	

<sup>\*)</sup> Results where the material is cracked, the adhesion of ElaProof is better than the durability of the material itself.

## **Nordic Ecolabelling**

Nordic Ecolabelling, or the Nordic Swan Ecolabel, tells us about the best products for the environment. It is also possible for a building to receive the Nordic Ecolabel if it meets the requirements for it.

The following ElaProof products are listed in the Nordic Ecolabelling construction product database and can be used in Nordic Swan Ecolabel buildings: ElaProof H • ElaProof Indoor • ElaProof S • ElaProof Indoor S • ElaProof Primer.

## **Dry film thickness**

Target	Dry film thickenss	Product used
Tin roof	min. 0,6 mm	ElaProof H / S
Bitumen Felt roof	1,0 mm	ElaProof H / S
Brick roof	1,0 mm	ElaProof H / S
Cement board roof	1,0 mm	ElaProof H / S
Indoor airsealing	min. 0,5 mm	ElaProof Indoor
Radon protection	min. 0,8 mm	ElaProof Indoor

## Consumption of ElaProof, wet film

Surface	Materials, e.g.:	
Smooth 1,0 l/m²	<ul> <li>Gypsum board • Chipboard</li> <li>Polystyrene • Wood (planed)</li> <li>Fibre cement board • Metals</li> <li>Polyurethane • Plywood</li> </ul>	
Medium Rough 1,5 l/m²	<ul> <li>Concrete (polished surface)</li> <li>Minererite • Brick • Felt</li> <li>Wood (unplaned)</li> </ul>	
Rough 1,8 l/m <sup>2</sup>	<ul><li>Lightweight gravel block</li><li>Concrete (rough surface)</li></ul>	

## **Overpainting of ElaProof surface**

If the finished ElaProof colours are not suitable for use on the site, the coating can be overpainted with most water-based, breathable and elastic paints. We have tested paints from several manufacturers and based on them we can recommend the following:

- Tested exterior paints: Vinha, Tikkurila Nordica Eco, Teknos
- Kirjo Agua, Teknos Saku Plinth Paint, Teknos
- Tested interior paints: Helmi, Tikkurila Unica Akva, Tikkurila • Biora 7, Teknos • Remonttiässä, Tikkurila

The table below provides indicative RR and RAL color correspondences ElaProof for colors.

ElaProof Colour	RR	RAL
Black	RR 33	RAL 9005
Grey	RR 21	RAL 7040
Red	RR 29	RAL 3009
Green	RR 11	RAL 6020
Brown	RR 32	RAL 8019
White	RR 20	RAL 9010
Dark Grey	RR 23	RAL 7015









## **ElaProof experts at your service!**



Finland Build Care Oy www.elaproof.com

Sweden www.galindberg.se

Norway www.elaproof.no

**Denmark** www.elaproof.dk

Benelux and France www.aselte.eu

**USA** www.finnishinnovationsconsultants.com

• Are you interested in importing ElaProof products? Please contact us:

**Manufacturer of ElaProof** 



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