

ESHAFLEX 2K-EL

Bituminous elastic two component waterproofing paste



GENERAL DESCRIPTION

EshaFlex 2K-EL is a fiber-reinforced elastomeric, thixotropic two-component material suitable for waterproofing concrete, cement block, brick, stone, plaster, lightweight aggregate concrete (porobeton), cement board, fiberboard, thermal insulation boards, expanded and extruded polystyrene boards, or any other stable building material.

EshaFlex 2K-EL consists of a liquid component (A) which is an elastic bituminous emulsion based on purified bitumen reinforced with synthetic latex resins and additives and a second component (B) based on hydraulically setting special cement powder reinforced with special cellulose fibers. **EshaFlex 2K-EL** is free from solvents and asbestos.

Upon curing, **EshaFlex 2K-EL** produces a seamless and joint-free membrane, which is watertight, flexible and slightly elastic, thereby making the surface absolutely impervious to water.

EshaFlex 2K-EL is suitable for permanent, flexible and reliable waterproofing of vertical and horizontal concrete surfaces. It provides excellent waterproofing properties against pressurized and non-pressurized water, moisture etc

EshaFlex 2K-EL is a universal waterproofing system having a diversified range of application, such as:

- Waterproofing of foundations and basements
- Permanent external or internal waterproofing of underground structures made of concrete, masonry, cement blocks, stone, etc.
- Permanent external waterproofing of underground coatings
- Underground garages, warehouses, cellars
- Biological cleaning
- Waterproofing of bathrooms and wet areas
- Waterproofing of balconies
- For bonding of insulation boards (polystyrene, polyurethane) on waterproofed surfaces

EshaFlex 2K-EL can also be applied to damp surfaces.

CHARACTERISTICS/ADVANTAGES

- High elasticity
- Excellent adhesion to all construction materials
- Excellent waterproofing

Alfa-Alfa Energy S.A.

ATHENS | CENTRAL OFFICES-FACORY: Aspropyrgos Beach, 193 00 Aspropyrgos, Attica | T. +30 210 5518 700
THESSALONIKI | OFFICES-WAREHOUSE: 18 Epirou Street, 570 09 Kalochoi | T. 2310 783 725

www.esh.gr • sales@esh.gr



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STORAGE

EshaFlex 2K-EL should be stored in protected areas where temperature is maintained above 5°C. Preserved in sealed containers for over a year.

PACKING

Set (A+B) with a total weight of 20 Kg.

EshaFlex 2K-EL (A): In pails of 10 kg

EshaFlex 2K-EL (B): In pails of 10 kg

APPLICATION PROCEDURE

WEATHER CONDITIONS

Avoid rainy – frost weather. Do not apply at temperatures below 5°C.

SURFACE PREPARATION

Surfaces should be regular, dust free, clean from oils and foreign matter, such as wood debris, thermal insulation, iron reinforcement, etc., are cut and removed with appropriate mechanical means, and the surface is repaired with **VANDEX PLUG** quick-setting waterproofing mortar, where necessary. If there is a concrete joint, it is opened with a compressor and sealed appropriately with **VANDEX PLUG**.

The surface to be waterproofed must be primed before applying **EshaFlex 2K-EL** using the eco-friendly elastomeric waterproofing asphalt primer, new water-technology, **EshaTopprimer**.

APPLICATION

- **Mixing EshaFlex 2K-EL components**: The two components of **EshaFlex 2K-EL** are mixed using a mechanical stirrer until a homogeneous paste is formed. Mixing ratio 1:1 (by weight). Component B (powder) is slowly added to component A (be careful not to do the opposite).
- **Spreading**: The final paste should be applied to a dry and primed surface using a trowel or spatula. **EshaFlex 2K-EL** can be applied in one or more layers depending on the requirements of the surface (see consumption). The use of glass fiber mesh between layers is recommended in cases where two layers of material are applied.

CLEANING OF TOOLS

Tools are cleaned with water before the product has dried and with gasoline or petroleum in case it has already dried.

CONSUMPTION

The consumption of **EshaFlex 2K-EL** depends on the existing moisture content of the surface to be waterproofed:

Case 1 - Presence of soil moisture.

After preparing the surface and applying the primer (as described in detail above), apply one coat of **EshaFlex 2K-EL** with a total consumption of 3kg/m².





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WATERPROOFING COATINGS BITUMINOUS EMULSIONS

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Case 2 - Presence of water without pressure.

After preparing the surface and applying the primer, apply two coats of EshaFlex 2K-EL with a total consumption of approximately 5-6 kg/m².

Case 3 - Permanent presence of pressurized water.

After preparing the surface and applying the primer, apply two coats of **EshaFlex 2K-EL** material with an intermediate layer of 160 gr/m² glass fiber mesh with 5x5 mm rectangular mesh openings.

The consumption of **EshaFlex 2K-EL** material depends on the water pressure and ranges between 3-4kg/m² ανά στρώση. per coat. Avoid direct contact with sunlight to prevent the formation of bubbles and hollows in thick wet layers.

Case 4 - Behind bathroom tiles.

After preparing the surface and applying the primer, apply one layer of **EshaFlex 2K-EL** with total consumption of 3kg/m².

PRECAUTIONS

May cause damage to organs through prolonged or repeated exposure. Keep out of reach of children. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Dispose of contents/container in accordance with local/regional/national/international regulations. Contains Hydrocarbons, C9-C12, nalkanes, isoalkanes, cyclics, aromatics (2-25%). Repeated exposure may cause skin dryness or cracking.

European Emergency Tel.: 112

For professional use only.

UFI: UH20-X08W-S00Q-004M

For more information please refer to the material's MSDS from Esha sales department and read carefully the product's plastic pail label.

Today, Esha is the No. 1 producer of bituminous waterproofing membranes in Greece, while also offering more than 500 specialized products (emulsions and solutions for surface protection and waterproofing, joint sealing materials, acrylics, epoxies, polyurethanes, polysulfides, modified road asphalt (elastomers, plastomers, recycled tires), asphalt road emulsions, asphalt bridge waterproofing materials, polyurethane thermal insulation boards, etc.).



See the products
and their applications
on our new website
www.esha.gr

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TECHNICAL CHARACTERISTICS

PROPERTIES	NOMINAL VALUES	TEST METHOD	UNITS
Type	Two component reaction compound	MDV	---
Physical State	Elastomeric bituminous emulsion and hydraulically setting special powder component, free from solvents and asbestos fibres	MDV	---
Color	Black	Observation	---
Density	1.25	ISO 12185	g/cm ³
Mixing Ratio	1:1	---	w/w
Pot life	approx. 60 (25°C)	---	min
Application temperature	10 - 35	---	°C
Substrate	Dry or slightly moist	---	---
Softening point	approx. 90	ASTM D-36	°C
Resistance properties	Resistant to numerous salt solutions, weak acids	---	---
Crack bridging capabilityClick to apply	Crack bridging 1.5 mm Dry membrane thickness 3.5 mm	EN 15812:2011	mm Visual observation
Curing time (depending on temperature, air humidity, substrate conditions)	1-3	---	Days

Fluctuations in nominal values are in accordance with the relevant standards. The manufacturer reserves the right to modify the properties of its products. Esha provides information and, in particular, recommendations regarding the application and end use of its products based on its current knowledge and experience, when the products are stored, used, and applied under normal conditions. In practice, there are variations in substrates and local application conditions, so Esha cannot guarantee the success of the application of any material. It is recommended that the user test the application of the material under the local application conditions.