



ELASTIC

HYPER-ELASTIC BITUMINOUS WATERPROOFING EMULSION

- ✓ UV Resistant
- ✓ Unique elasticity
- ✓ Perfect adhesion to all construction materials
- ✓ Excellent waterproofing result & Resistance to aging
- ✓ Short drying time
- ✓ Water soluble – Friendly to use

GENERAL DESCRIPTION

ESHAELASTIC is a high grade, hyper-elastic bituminous water-proofing emulsion. It is composed of purified bitumen, synthetic elastomers, resins, and anti-stripping agents.

When dry, it forms a continuous elastic film that shows excellent adhesion to most common structural elements and is resistant to UV radiation, despite its black color. Because of its unique elasticity (1200%) it exhibits excellent crack-bridging properties and has a wide range of waterproofing applications. It is user-friendly as it does not contain organic solvents and is dissolved with water.

USES

- Waterproofing of flat roofs, balconies, side walls, basements and generally concrete surfaces.
- Excellent vapor barrier.
- Regeneration of old bituminous layers. When applied on top of old bituminous layers, it forms a final elastic and continuous film that seals any existing cracks and in the mean time stabilizes the mineral protective top finish (if any)
- Surface-primer for the adhesion of bituminous membranes. EshaElastic has unique advantages compared to bituminous varnishes for the same application. It is water soluble, meaning easier and friendlier to use, and it has a special composition that enables the material to dry at a shorter time.
- Adhesion of thermo-insulating materials.

ESHAELASTIC is compatible with concrete, light weight concrete, asbestos-cement, brick, stones, wood, metal, plasterboard, polystyrene and polyurethane.



PACKING

In Pails of 17 kg.

STORAGE

Stored in protected areas where temperature is maintained above 5 °C. Preserved in sealed containers for over a year.

PRECAUTIONS

- Prolonged skin contact with EshaElastic should be avoided.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- It should not be disposed to the ground but should be treated according to the relevant regulations.

For more information please ask the material's MSDS from Esha sales dpt.



HYPER-ELASTIC BITUMINOUS WATERPROOFING EMULSION

INSTRUCTIONS FOR USE

SURFACE PREPARATION

Surfaces should be regular, dust free, clean from oils and foreign matter. EshaElastic can be applied on a damp (not wet) surface.

APPLICATION

A. Waterproofing of surfaces/ Regeneration of old bituminous layers

- **ESHAELASTIC** is cold applied in at least two layers by brush, roller or spray gun. Each new layer is applied in a criss-cross pattern with respect to the previous one, when the latter is dry, in order to avoid entrapment of water in-between successive layers. For the same reason one thick layer should be avoided.
- Reinforcement (e.g. polyester fabric or glassfleece) may be used between two successive layers to increase the mechanical properties of the final film.
- **ESHAELASTIC** is resistant to UV radiation. However, when used for waterproofing of exposed surfaces, it is recommended to coat the surface with a protective layer of EshaLumin bituminous aluminium paint, which functions as solar reflective surface and protects the roof from unnecessary overheating.

B. Priming for application of bituminous waterproofing membranes

- Adhesion of bituminous membranes by means of a torch, on a pre-coated surface with EshaElastic, should start only after all water content has evaporated. In practice this means 2-3 hours in summer time and 6-8 hours in winter time, depending on weather conditions (temperature and moisture content).

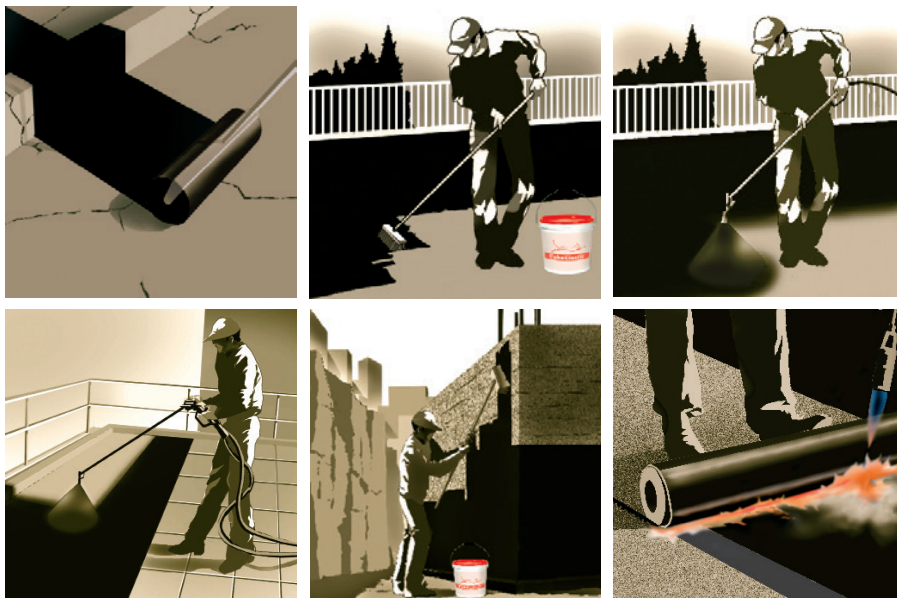
Attention: EshaElastic must not be applied during frost or when the temperature is below 5 °C.

CONSUMPTION

For concrete surfaces it is recommended to dilute EshaElastic with water up to 15 - 20% in the first layer (priming). If dilution is needed in subsequent layers then 10% is recommended. In both cases consumption ranges between 0.3 - 0.5 kg/m² per layer, depending on the surface type and porosity.

CLEANING OF TOOLS

Tools are cleaned with water if the emulsion is still fresh or with gasoline in case it has already dried.





HYPER-ELASTIC BITUMINOUS WATERPROOFING EMULSION

TECHNICAL CHARACTERISTICS

When dry, EshaElastic forms a continuous elastic film that does not shrink neither becomes brittle and retains its elasticity in a wide temperature range

(-15 °C to 90 °C). It is not affected by weak acid and alkali solutions, or common chemical substances contained in the soil. It is affected by mineral oils.

CHARACTERISTICS	UNIT	T	PERFORMANCE	STANDARD METHOD
Physical State	--	--	Bituminous Elastomeric Waterproofing emulsion	MDV
Color	--	--	Black - Brown	Observation
Density	gr/cm ³	± 0.10	0.95	ISO 12185
pH Value	--	± 2	9.0	ISO 976
Solid Content	%	± 2	58	EN ISO 3251
Vapor diffusion coefficient	≥	--	20000	EN 1931
Dynamic Indentation Resistance	--	≤	I-1	EOTA TR-006
Static Indentation Resistance	--	≤	L-1	EOTA TR-007
Dynamic Indentation Resistance at low Temperature	°C	≥	- 10	EOTA TR-007
Low Temperature Flexibility	°C	≥	- 10	EN 1109
Resistance to Fire	--	≤	F	EN 13501-1
External Fire Performance(*)	--	≤	Froof	EN 1187
Elongation	%	>	1000	ASTM D-412
Water pressure resistance	MPa	≥	0.15	EN 1928
Flow resistance at 100°C	mm	≤	1	EN 13880-5
Gap bridging under pressure (0.5bar, 8h, 3mm thick) <ul style="list-style-type: none"> • Gap 3mm, 0°C • Gap 3mm, 20°C 	--	--	No leakage	AIB 1.997 Annex III column 5
Concrete adhesion (cured for 1day at 70°C)	N/mm ²	>	0.15	ASTM D-429

Tolerances in the nominal values are in accordance with respective standards. Producer reserves the right to modify the properties of his products.

The information contained in this leaflet is, to the best of our knowledge, true and reliable and is supported by the present state of our knowledge. According to the care taken and the method of application, upon which we have no influence, the values are subject to divergence. Therefore for best results, prior to use, an application test should be made by the user under his own processing conditions.

Alfa-Alfa Energy S.A.
 ATHENS/CENTRAL OFFICES-FACTORY: Aspropyrgos Beach, 193 00 Aspropyrgos, Attica
 T +30 2105518700, F +30 2105572974 | THESSALONIKI/OFFICES-WAREHOUSE: 18 Epirou Street,
 570 09 Kalochori, T +30 2310783725, F +30 2310783326 |
www.eshagr.com • sales@eshagr.com • exports@eshagr.com

