



we know how
since 1962

POLYMER WATERPROOFING COATINGS

ESHAPOLYBLACK

One component, water based/solvent free,
elastomeric polyurethane bitumen
waterproofing liquid



GENERAL DESCRIPTION

ESHAPOLYBLACK is a new generation water based/solvent free, polyurethane bitumen waterproofing liquid for vertical and horizontal surfaces waterproofing applications. After polymerization it forms a continuous seamless waterproofing elastomeric membrane.

It's advanced chemical formula grants unique properties such as : very good adhesion without primer use on most common construction surfaces (such as concrete, cement screeds, steel or wood surfaces, gypsum / cement boards and other bituminous surfaces). It is a fast curing/drying and bubble free coating.

Its main use is for long term waterproofing and protection for all construction elements. Can be used in areas where ponding water may exist. It exhibits high mechanical strain resistance & gap bridging ability for cracks up to 3,0 mm width.

APPLICATION FIELDS

Recommended for waterproofing and protection (fulfils EN 1504-2:2004) of:

- Basements underground vertical walls & foundations.
- Wet areas (bathrooms, under tile).
- Roofing.
- Non potable water tanks & irrigation channels.
- Ponding water areas.
- Gypsum & cement boards.
- As vapor barrier
- Bituminous waterproofing membranes rejuvenation and repair.

** In case of EshaPolyblack is used as waterproofing layer at exposed to the sun areas, the use of an additional resistant to UV resistant layer such as: ESHACRY-COAT or ESHAHYBRID or ESHALUMIN is highly recommended.*

*** ESHAPOLYBLACK cannot be used as primer for bituminous waterproofing membranes torch or cold application.*

CHARACTERISTICS / ADVANTAGES

- High elastomeric behavior
- Excellent adhesion
- Fast drying
- Resistant to ponding water
- Thixotropic
- Long service life
- High resistance to wear
- High crack bridging ability
- Excellent vapor barrier

Alfa-Alfa Energy S.A.

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STORAGE

ESHAPOLYBLACK can be stored for at least 9 months in the original sealed pails. Store in a dry protected environment, at storage temperatures from +5°C to +30°C. Do not expose to heat sources. When opened product has to be applied.

PACKING

In 17 kgs plastic pails.

APPLICATION PROCEDURE

WEATHER CONDITIONS

Avoid rainy – frost weather. Application temperature window is from +5°C to +35°C. Not suitable for exposure to solar radiation.

SURFACE PREPARATION

Surfaces should be regular, free from loose particles and dust, clean from oils and foreign matter. Blow with compressed air if necessary or high pressure water jet. Application on rigid dry surfaces.

Concrete existing cracks should be first repaired with polyurethane one component sealant **ESHAPOLYSEAL 1K**. Primer use is not necessary. If needed, **ESHAPOLYBLACK** diluted with 15%-20% water can be used.

APPLICATION

Gently stir before application until homogeneous mixture is formed. Prolonged or/and fast stirring may result to air entrapment.

ESHAPOLYBLACK can be applied with roll, or spayed with airless gun (10% dilution with water) in 2 or 3 successive layers. To maximize the resulting waterproofing membrane and mechanical strength apply on fresh **ESHAPOLYBLACK**, a layer polyester reinforcement **ESHATERRA 50**, especially where intense concrete cracking is abundant or at vertical/horizontal wall corners.

Each **ESHAPOLYBLACK** layer is applied crosswise to the previous once it has completely dried. Waiting time between 2 successive layers should be at least 2-3 hours and not more 48 hours. Curing time depends from environmental temperature & humidity.

CURING TIME

Full product curing is expected in 5-7 days depending to weather and environmental conditions

TOOLS CLEANING

Tools are cleaned with water before the emulsion has dried or by mechanical scraping in case it has already dried.

CONSUMPTION

Total consumption of 1.0-1.2 kg/m² in 2 or 3 layers is recommended and depended on depending application surface porosity. Don't apply in single thick layers of 0.8 kg/m² to avoid air entrapment.





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PRECAUTIONS

May cause damage to the liver after prolonged or repeated exposure.
May harm the fetus. Keep out of reach of children. Use of appropriate
Personal Protection equipment during application (protective
gloves/protective clothing/eye protection/face). Do not breathe
dust/fume/gas/mist/vapours/spray – use respiratory protection in
closed spaces. IN CASE of exposure or possible exposure: Consult
a doctor. IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
IF ON SKIN: Rinse skin with water [or shower] – **European Emergency
Tel.: 112**

Dispose of contents/container in accordance with local/regional/
national/international regulations.

FOR PROFFESIONAL USE ONLY.

UFI: 91S2-D0V5-T007-N54D

*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 VALUE	TEST METHOD	UNIT
Color	Black	---	---
Tack free time	3	---	h
Density	1,012 ± 3 %		g/cm ³
Elongation at break	> 200	DIN 53504	%
Hardness SHORE-A	45 - 55	ISO 868:2003	---
Bonding strength on concrete without primer	≥ 0,8	EN 1542:1999 pull out test	N/mm ²
Service temperature after curing	-10 to +50	---	°C
Application temperature	+5 to +35	EN 1504-2	°C
Fire classification	Euroclass F	EN 13501-1	---
Water absorption	< 4	After immersion 48h, 25°C	% by weight
Permeability to CO ₂ , S _D	165	EN 1062-2:2018	m
Permeability to water vapor, S _D	> 10	EN ISO 7783:2018	m
Vapor permeability coefficient	≥ 2000	EN 1931	
Liquid water permability, W in 25°C, Rh=55%	0.063	EN 106-32:2008	kg/(m ² .h ^{0.5})
Impact resistance	≥10	EN ISO 6272-1:2011	Nm
Gap bridging ability	≥ 3mm	EN 14891:2007 § A.8.2	mm

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.