



POLYSEAL 1K

ONE COMPONENT ELASTOMERIC POLYURETHANE SEALANT

GENERAL DESCRIPTION

ESHAPOLYSEAL 1K is a thixotropic one component gun-grade polyurethane-based sealant that becomes elastomeric & rigid after air contact.

It shows good weathering and water resistance, it is not corrosive and can be painted over with water-based paints, preliminary tests are recommended.

It is not resistant to organic solvents, strong acid and alkalic solutions.



TYPICAL APPLICATIONS

ESHAPOLYSEAL 1K is designed for sealing:

- Horizontal and vertical joints
- Between same & different materials in classic civil engineering, pre-constructed elements, industrial buildings & applications like internal decoration etc. It shows excellent adhesion to all common structural elements like ceramics, cement, glass, wood, galvanised steel etc.

COMPOSITION

ESHAPOLYSEAL 1K is based on polyurethane elastomers.

APPLICATION METHOD

a) Joint preparation

Joints should be dry, dust free, clean from oils and foreign matter. Previously used materials should be well removed. Sealing depth should not be less than a 70% of the joint's width, and be at least 7mm, as shown in the DIAGRAM.

b) Joint sealing

Joint sealing For better adhesion, joint surface must be primed before sealing. The primer «**ESHAPRIMER 21**» is applied at least 15 to 3 hours before sealing. In case of high environmental humidity, surface is recommended to be primed with **EHADESMOLAST PRIMER AQUA 2K**.

When needed the depth of the joint is filled with expanded polyethylene backing rod to avoid the adhesion of the sealer with the bottom side of the joint in order to prevent the free blocking of surveillance of joints' movement.

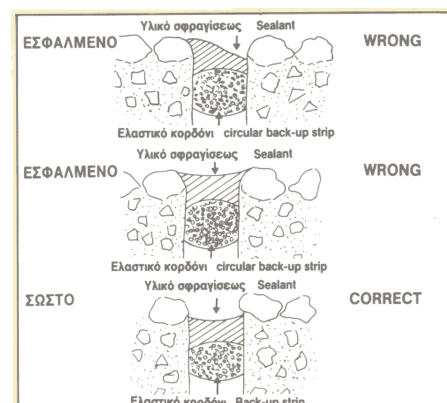
Solidification becomes apparent usually within 1 -2 hours.

At least a 24 hour period is required for **ESHAPOLYSEAL 1K** to develop its final form. Polymerization time depends on temperature and humidity conditions of the environment.

CONSUMPTION

ESHAPOLYSEAL 1K : Indicative consumption for a joint of 2cm width (1.4cm in depth), 356g per run meter.

ESHAPRIMER 21: 400g/m² of joint sealing surface.





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TECHNICAL CHARACTERISTICS

PROPERTIES	UNIT	DECLARED VALUE	STANDARD
Color		Grey	OBSERVATION
Density	g/cm ³	1,35 ± 0.1	EN 13880-1
Tack free time (25°C/ 50% RH)	h	≤ 4	EN 14187-2
Curing Rate (at 3 days)	%	> 80	EN 14187-1
Extrudability	ml/min	≥ 70	EN 28394
Chemical Resistance againsta slightly acidic and alkaline solutions	%	≤ -25 (change in mass) ≤ ± 30 (change in volume)	EN 14187-4 (Test liquid 5%HCl & 5% NAOH)
Elastic Recovery	%	≥ 70	EN ISO 7389
Hardness Shore A	-	30 ± 3	EN 14187-5
Resistance to Hydrolysis (change in Hardness Shore A)	%	≤ ± 50	EN 14187-5
Modulus of elasticity at 100% extension for 24h at 23°C	MPa	≥ 0.15	EN 10002-1
Resistance to Flame	-	No flow, No flacking	EN 14187-7

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

PRECAUTIONS

ESHAPOLYSEAL 1K does not contain solvents. Avoid frequent and prolonged contact with skin. Wash with soap and plenty of water.

PACKING

Box of 15 sausages with 600ml content each.

STORAGE

At least 9 months stored in dry environment

Note

All data given here in is for information only and cannot be considered as standard specifications and conditions of sale. Prior tests should be made by user the under his own processing conditions

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.

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ISO 14001

ISO 9001