



POLYSEAL (A+B)

TWO COMPONENT ELASTOMERIC POLYURETHANE SEALANT FOR PROFESSIONAL USE

GENERAL DESCRIPTION

ESHAPOLYSEAL (A+B) is a high grade, self levelling, elastomeric, two component (A+B) POLYURETHANE sealant. When cured, it provides a permanently elastic jointing compound capable of withstanding a joint movement larger than 25%.

ESHAPOLYSEAL (A+B) is a two component (A+B) self levelling sealant. The two components are mixed at a ratio 3,1:1 (w/w). Polymerization leads to a polyurethane rubber material. **ESHAPOLYSEAL (A+B)**, when cured, remains elastic within the temperature range of -30° C to 100°C.

ESHAPOLYSEAL (A+B) shows outstanding resistance to ageing.

It has no effect on polyurethane foam, and polyethylene. It is resistant to detergents, mineral oils, dilute acid, and alkali solutions. It attacks polystyrene.

TYPICAL APPLICATIONS

ESHAPOLYSEAL (A+B) is designed for sealing horizontal joints:

- Deck joints of any structural element e.g. concrete, metal, marble.
- Precast concrete panels
- Car parking decks

It shows excellent adhesion to all common structural elements.

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 fraction of 0.7 the joint's width, and be at least 7mm, as shown in the DIAGRAM.

b) Joint sealing

For better adhesion, joint surface must be primed before sealing. The primer, **ESHAPRIMER 21**, is applied at least 1 hour, but not more than 4 hours before sealing.

The two components of **ESHAPOLYSEAL (A+B)** are mixed and stirred to only one direction preferably by mechanical mixer with slow speed (80-150 rpm), to avoid formation of air bubbles. Stirring is continued for 3 min after homogeneity is achieved.

The two components should be blended to obtain uniform color of the sealant. The material is improperly mixed if it is not uniform in color.



COMPOSITION

ESHAPOLYSEAL (A+B) is based on polyurethane elastomers.

The time interval between mixing and pouring into the joint must not exceed 30 min.

Solidification becomes apparent usually within 1 -2 hours.

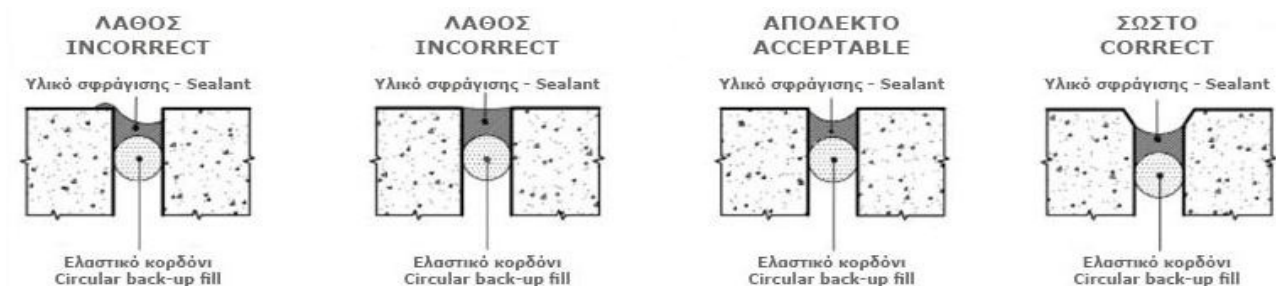
At least a 24 hour period is required for **ESHAPOLYSEAL (A+B)** to develop its final form.

Polymerization time depends on temperature and humidity conditions of the environment. High environmental temperatures and humidity conditions shorten work life and curing time, while low extend both. Cured sealant is usually very difficult to remove without altering or damaging the surface to which the sealant has been misapplied.

CONSUMPTION

ESHAPOLYSEAL (A+B): Indicatevely for a joint of 2cm width (1.4cm in depth), 378g per run meter.

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





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TECHNICAL CHARACTERISTICS

PROPERTIES	UNIT	DECLARED VALUE	STANDARD
Color		Dark Grey	OBSERVATION
Density	g/cm ³	1,35± 0.10	EN 13880-1
Tack free time (25°C/ 50% RH)	h	≤ 5	EN 14187-2
Curing Rate (at 4 h)	%	> 80	EN 14187-1
Self Leveling Property (horizontal level, 5°C)	mm	≤ 1	EN 14187-3
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
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

Harmful if swallowed. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Keep out of reach of children. Do not eat, drink or smoke when using this product. [In case of inadequate ventilation] wear respiratory protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. Dispose of contents/container in accordance with local/regional/national/international regulations.

SPECIFICATIONS

ESHAPOLYSEAL (A+B) fulfills the requirements of the FEDERAL SPECIFICATIONS SS-S-200D, BS 5212 and that of the DEPARTMENT OF TRANSPORT, ROADS & BRIDGES CLAUSE 2619.

PACKING

- In two containers 13,2 kg (10kg A + 3,2kg B)
- In two containers 4,5kg (3,4kg A + 1,1kg B)

STORAGE

At least for one year in sealed unopened containers. Store 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

