



THIOSEAL (A+B)

TWO COMPONENT ELASTOMERIC POLYSULPHIDE SEALANT - POURING GRADE - FOR PROFESSIONAL USE

GENERAL DESCRIPTION

ESHATHIOSEAL (A+B) is a high-grade elastomeric two component (A+B) POLYSULPHIDE Sealant. When cured, it provides a permanently elastic jointing compound capable of accommodating a joint movement larger than 25%.

ESHATHIOSEAL (A+B) has outstanding resistance to weathering, UV light and presence of chemicals in industrial environments. It is used for sealing horizontal and vertical joints, where movement is expected, or where the performance criteria set are more demanding than common joint sealants.



TYPICAL APPLICATIONS

ESHATHIOSEAL (A+B) is designed for sealing:

- Horizontal and vertical expansion joints of any structural element e.g. concrete, metal, marble etc.
- Precast concrete panels
- Glazed units
- Expansion joints in structures, subject to wear and chemical contamination (e.g. sewage plants)

It can also be used for mixed joints between two different materials.

COMPOSITION

ESHATHIOSEAL (A+B) is based on polysulphide elastomers (THIOKOL).

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.

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

Low temperatures retard curing of the material with the added liability of atmospheric condensation within the joint resulting in a spoiled bond.

b) Joint sealing

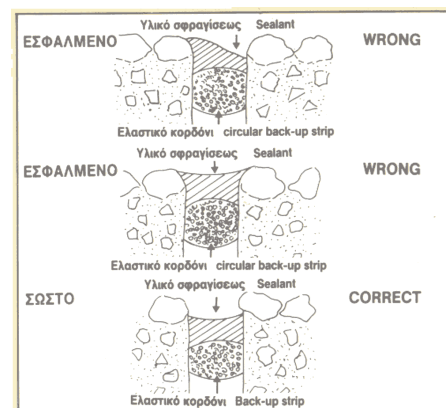
For better adhesion, joint surface must be primed before sealing. The primer, **ESHAPRIMER 21**, is applied at least 1 hour, but not more than 4 hours before sealing.

CONSUMPTION

ESHATHIOSEAL (A+B): Indicatively for a joint of 2cm in width (1.4cm in depth), 392g per run meter.
ESHAPRIMER 21: 400g/m² of joint sealing surface.

ESHATHIOSEAL (A+B) must be mixed mechanically, using a heavy-duty, slow speed (up to 450 rpm) drilling machine fitted with a T-shaped sealant paddle, continued for at least 3 min after homogeneity is achieved. Take care not to stir air into the mix.

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. The time interval between mixing and pouring into the joint must not exceed 30 min. Solidification becomes apparent usually within 1 -2 hours.





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TECHNICAL CHARACTERISTICS

| PROPERTIES | UNIT | DECLARED VALUE | TEST METHOD |
|---|--------------------|---|--|
| Color | | Gray after mixing | Observation |
| Density | g/cm ³ | 1,4 ± 0.1 | EN 13880-1 |
| Mixing Ratio | p.b.w. (A/B) | 10 : 1 | DIN 18540 |
| Rate of Cure (at 8h) | % | 80%, | EN 14187-1 |
| Tack Free Time (25°C, 50% RH) | h | ≤ 10 | EN 14187-2 |
| 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 | - | 28 ± 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 flaking | EN 14187-7 |
| Bond to concrete (150% extension) | Observation | No cracks & bond failure | DIN 18540 |
| Bond to concrete (100% extension) | kp/cm ² | ≤ with no cracks & bond failure | DIN 18540 |
| Application temperature | °C | > 8 | --- |

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

PRECAUTIONS

May cause harm to breast-fed children. Very toxic to aquatic life with long lasting effects. Keep out of reach of children. Obtain special instructions before use. Avoid contact during pregnancy/while nursing. Do not eat, drink or smoke when using this product. Avoid release to the environment. IF exposed or concerned: Get medical advice/attention. Dispose of contents/container in accordance with local/regional/national/international regulations.

Note

All data given herein 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

SPECIFICATIONS

ESHATHIOSEAL (A+B) fulfils the requirements of DIN,18540,BS 4254, US - Standard specification M-41 for elastomeric canal joint sealers.

PACKING

- i) In container of 5kg (A+B)
 - ii) In container of 20kg (A+B)
- Both, A+B parts are packed in the same container.

STORAGE

At least for one year in sealed unopened containers. Store in dry environment, away from frost and direct sunlight.

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