

EAMIC THIOKOL

Two-Part Polysulfide Joint Sealants

Product Description

EAMIC THIOKOL sealants are two-part, elastomeric, polysulfide caulking and sealing compounds. EAMIC THIOKOL cures at normal temperatures creating a tough elastomeric seal that adheres tenaciously to masonry, metal and concrete. EAMIC THIOKOL will withstand repeated expansion and contraction and remain resilient through daily and seasonal cyclic changes in temperature.

Typical Application

EAMIC THIOKOL NS is a non-sag gun grade sealant designed for use in vertical and non-traffic bearing horizontal joints. EAMIC THIOKOL NS is used for all normal construction joints such as panel and curtain wall construction, concrete joints, bridge abutments and building joints.

EAMIC THIOKOL NS is formulated for use in joints subject to long term contact with water and may be used in water reservoirs, canals, dams and foundation joints.

EAMIC THIOKOL SL is a flowable, self-leveling, traffic grade sealant designed for horizontal joints in patios, plazas, floors, sidewalks, roadways and other areas exposed to pedestrian or vehicular traffic

Product Features

- Joint sealant between similar/dissimilar materials.
- Glazing & caulking.
- Resistant to splash contact with jet fuel.
- Perfect for dynamic joints .
- Under water application.

Guide for Application Surface Preparation

Cure new concrete surfaces for 28 days. Surface of the joint must be clean, sound, and dry. Contaminants such as previously applied sealants, form release agents, grease, oil, etc. must be removed by scarifying, wire brushing, or sanding. All traces of asphalt or other bituminous materials must be removed. Dust should be blown out of the joint with oil free, moisture free compressed air. Protective coatings of lacquer or oil must be removed from metal surfaces with MEK or xylene. Do not apply EAMIC THIOKOL if the temperature of the sealant, air, or substrate is below(4°C).

Priming

Priming is not normally required with common building materials. A primer may be required for optimum adhesion in demanding environments. In these cases EAMIC THIOKOL PRIMER should be used and the sealant must be applied within 8 hours after priming.

A field trial is recommended to determine actual adhesion with and without a primer.

Joint design

The minimum width of the joint should be 4 times the anticipated movement but not less than (0.64 cm). In joints up to (1.3 cm) wide, the sealant depth should be equal to the joint width. In joints from (1.3 cm) to (2.5 cm) wide, sealant depth should be (1.3 cm).

In joints deeper than (1.3 cm), a backing material should be used to fill the lower part of the joint cavity. The backing rod should be round to minimize the stress on the joint sealant. The sealant should not adhere to the bottom of the joint or the backing material. A strip of polyethylene film may be installed as a bond breaker between the filler or the bottom of the joint and the sealant.

Technical Properties

Appearance	EAMIC THIOKOL could be supplied in different color : D.Grey , Black & B.Red
Specific gravity mixed	1.6 ± 0.05
% Solids	100
% Joint movement	±25
Hardness, Shore A (ASTM D2240)	35 ± 5
Pot life	4 hrs. @ 25°C . 2 hrs. @ 30°C
Tack free	12 to 72 hrs.

Mixing

Mixing – EAMIC THIOKOL PRIMER: Mix Part A with Part B for 3 minutes. After application, allow the primer to reach a tack free touch before applying EAMIC THIOKOL NS or EAMIC THIOKOL SL.

Mixing – EAMIC THIOKOL NS or SL: Thorough mixing of the components is essential for maximum performance of EAMIC THIOKOL. Mix Part A with a slow speed (1.3 cm) drill (250 to 300 rpm) with a “Jiffy” mixing paddle. Then add Part B to Part A and mix for 3 to 4 minutes until the material is completely blended with a uniform color. While mixing, periodically scrape down the sides of the container and mixing paddle.

Application

EAMIC THIOKOL sealants allow 1 to 2 hours of working time under normal conditions. Do not mix more than can be applied in this period.

EAMIC THIOKOL NS can be applied with standard caulking equipment. Always fill the joint from the bottom up or from the inside out to avoid entrapping air. The gun nozzle should be the largest size which can be inserted to the bottom of the joint. Tooling is recommended immediately after application to ensure full contact with the joint surfaces. Dry tooling is preferred. EAMIC THIOKOL SL may be poured into the joint, as it is self-leveling.

Warranty

We warrant our products to be of good quality & manufactured to rigid standards. This Warranty is in lieu of any & all other warranties expressed or implied. This data sheet is published for information only. It is believed to be correct but no liability is accepted for it or the suitability of the product for any particular purpose. EAMIC TRETOL services are free & the company does not accept liability for any loss arising from it. Max liability is limited to substituting the

Packaging

EAMIC THIOKOL NS and EAMIC THIOKOL SL are packaged in 12 kg. units. EAMIC THIOKOL PRIMER is a two-part product; Part A and Part B in 4 kg pack

Shelf-life

1 years in original, unopened package.

Coverage

Will depend on designed joint width & depth , as an example :

- 10 linear meter of joint of 10 mm× 10mm / 1.6 kg

Note: EAMIC THIOKOL coverage rates are approximate and provided for estimating purposes only.

Cleaning

Clean tools and equipment immediately after application with xylene or acetone. Clean up spills and drips while still wet with the same solvents.

Health and Safety

- Store at temperatures between (10°C to 35°C).
- Protect from moisture.
- Do not mix base and activator components from one shipment with components from another.
- For water immersion conditions allow EAMIC THIOKOL to cure for 7 days at (21°C) prior to filling with water.
- In all cases, consult the Safety Data Sheet before use.

EAMIC TRETOL

Leaders in Construction Chemical Technology

Edition 08.2023