TAMMSFLEX IN-NS/ TAMMSFLEX IN-SL

Two-Part Polysulfide Joint Sealants

EUCLID CHEMICAL

Description

TAMMSFLEX sealants are two-part, elastomeric, polysulfide caulking and sealing compounds. TAMMSFLEX cures at normal temperatures creating a tough elastomeric seal that adheres tenaciously to masonry, metal and wood. TAMMSFLEX will withstand repeated expansion and contraction and remain resilient through daily and seasonal cyclic changes in temperature. TAMMSFLEX has excellent chemical, solvent, and water resistance and will withstand joint movement of up to ±25%.

Primary Applications

TAMMSFLEX IN-NS is a non-sag gun grade sealant designed for use in vertical and non-traffic bearing horizontal joints subject to expansion resulting from temperature changes. TAMMSFLEX IN-NS is used for all normal construction joints such as panel and curtain wall construction, copings, masonry joints, bridge abutments and building joints. TAMMSFLEX IN-NS is formulated for use in joints subject to long term contact with water and may be used in water reservoirs, dams and foundation joints.

TAMMSFLEX IN-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.

Features/Benefits

- Joint sealant between similar/dissimilar materials
- Glazing & caulking
- Resistant to splash & spill contact with jet fuel
- Perfect for dynamic joints subjected to chemicals
- Service temperatures from -45°C to 87°C

Technical Information

Property	Result
Specific gravity mixed	1.6
% Solids	100
% Joint movement	±25
Hardness, Shore A (ASTM D2240)	25 to 30
Pot life.	approx 2 hrs
Tack free	12 to 24 hrs
% Elongation (ASTM D638)	500 to 550
Tensile strength (ASTM D638) MPa	150 to 200 (3.68 to 4.91)
100% Modulus MPa	1.23
200% Modulus MPa	1.96
Chemical Resistance	See full chemical resistance chart @euclidchemical.com
Appearance	TAMMSFLEX is gray/brown in color

Flowcrete India Pvt Ltd
"Ganesh Towers" Door No.B-1, 1st floor, 1st Avenue, Ashok Nagar, Chennai - 600 083.
Tamilnadu, India. T: +91 44 40176600 | E-mail: india@flowcrete.com

Packaging

TAMMSFLEX IN-NS and TAMMSFLEX IN-SL are packaged in 1 Kg & 4 Kg units. TAMMSFLEX PRIMER is a two-part product; Part A and Part B are each packaged in containers.

Shelf Life

1 year in original, unopened package

Specifications/Compliances

- ASTM C 920
- IAPMO/ANSI Standard 61 (Tammsflex IN-NS)

Coverage

Inches (cm)		Linear ft/gal (m/L)
Joint Width	Joint Depth	
1/4 (0.64)	1/4 (0.64)	308 (25)
3/8 (0.95)	3/8 (0.95)	102 (8)
1/2 (1.27)	1/2 (1.27)	77 (6.2)
5/8 (1.6)	1/2 (1.27)	61(4.9)
3/4 (1.9)	1/2 (1.27)	51 (4.1)
7/8 (2.2)	1/2 (1.27)	44 (3.5)
1 (2.5)	1/2 (1.27)	38 (3.1)

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

Directions for Use

Surface Preparation: Cure new concrete or masonry 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 TAMMSFLEX 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, continuous immersion for example, or for certain substrates. In these cases TAMMSFLEX 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 64 mm. Maximum recommended joint width is 2.5 mm. In joints up to 13mm wide, the sealant depth should be equal to the joint width. In joints from 13 mm to 25 mm wide, sealant depth should be 13 mm. In joints deeper than 13 mm, a flexible, non-asphaltic or non-oil impregnated backing material should be used to fill the lower part of the joint cavity. For traffic bearing areas, a round rod of synthetic rubber of the same Shore A as TAMMSFLEX IN-SL (or harder) is recommended. 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.

Mixing - TAMMSFLEX PRIMER: Mix Part A with Part B for 3 minutes. After application, allow the primer to cure for 2 hours before applying TAMMSFLEX IN-NS or TAMMSFLEX IN-SL.

Mixing - TAMMSFLEX IN-NS or IN-SL: Thorough mixing of the components is essential for maximum performance of TAMMSFLEX. Remove the activator (Part B) from the base material (Part A) container. Also remove the polyethylene sheet or tray. Mix Part A with a slow speed 13 mm 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. **Caution:** Do not mix base and activator components from one shipment with components from another. **Application:** TAMMSFLEX sealants allow 1 to 2 hours of working time under normal conditions. Do not mix more than can be applied in this period. TAMMSFLEX IN-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. TAMMSFLEX IN-SL may be poured into the joint, as it is self-leveling.

Clean-Up

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

Precautions/Limitations

- Store at tempatures between 10 C to 32 C.
- Protect from moisture.
- Do not mix base and activator components from one shipment with components from another.
- For water immersion conditions allow TAMMS FLEX to cure for 7 days at 21 C prior to filling with water.
- TAMMSFLEX is not resistant to swimming pool chlorinated water.
- In all cases, consult the Safety Data Sheet before use.