



TAMMSFLEX NS/TAMMSFLEX SL

TWO-PART POLYSULFIDE JOINT SEALANTS

EUCLID CHEMICAL

JOINT FILLERS & SEALANTS

TAMMSFLEX NS / TAMMSFLEX SL

MASTER FORMAT #: 09 96 09

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 $\pm 25\%$.

PRIMARY APPLICATIONS

TAMMSFLEX 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 NS is used for all normal construction joints such as panel and curtain wall construction, copings, masonry joints, bridge abutments and building joints. TAMMSFLEX 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 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 to -45°C to 87°C

TECHNICAL INFORMATION

Typical Properties at 23°C

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) MPa3.68 to 4.91
 100% Modulus MPa.....1.23
 200% Modulus MPa.....1.96
 Chemical resistance see full chemical resistance chart
 Appearance: TAMMSFLEX is grey/brown in colour

PACKAGING

TAMMSFLEX NS and TAMMSFLEX SL are packaged in 5.68 L units. TAMMSFLEX PRIMER is a two-part product; Part A and Part B are each packaged in 0.95 L containers.

SHELF LIFE

1 year in original, unopened package.

SPECIFICATIONS/COMPLIANCES

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

COVERAGE

Centimeters		Meters/Litres
Joint Width	Joint Depth	
0.64	0.64	25
0.95	0.95	8
1.27	1.27	6.2
1.6	1.27	4.9
1.9	1.27	4.1
2.2	1.27	3.5
2.5	1.27	3.1

Note: Tammsflex 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 0.64cm. Maximum recommended joint width is 2.5 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 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 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 NS or TAMMSFLEX SL.

Mixing - TAMMSFLEX NS or 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 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.

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 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 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 temperatures 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 TAMMSFLEX 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.

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