TAMMSFLEX NS/TAMMSFLEX SL

Two-Part Polysulphide Joint Sealant

EUCLID CHEMICAL

Description

TAMMSFLEX sealants are two-part, elastomeric, polysulphide 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 NS is a non-sag gun grade sealant designed to use in vertical and non-traffic bearing horizontal joints subject to expansion resulting from temperatures 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-levelling, traffic grade sealant designed for horizontal joint in patios, plazas, floors, sidewalks, roadways and other areas exposed to pedestrian or vehicular traffic.

Features / Benefits

- Joint sealant between similar/dissimilar materials
- Glazing and 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

Typical Properties at 23°C	
Specific Gravity mixed	1.6
% Solids	100
% Joint Movement	+/-25
Hardness, Shore A (ASTM D2240)	15 to 25
Pot Life	90 to 180 mins
Tack Free	12 to 24 hrs
% Elongation	Min. 450
Tensile Strength (MPa)	Min. 3.5
Appearance:	Grey in colour after mix

Packaging

TAMMSFLEX NS and **TAMMSFLEX SL** are packed in 4.0 kg units.

Shelf Life

12 months in original sealed container stored in a dry cool place under cover out of direct sunlight.

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Coverage

Joint Width (mm)	Joint Depth (mm)	(m/L)
6.4	6.4	25
9.5	9.5	8.0
12.7	12.7	6.2
16	12.7	4.9
19	12.7	4.1
22	12.7	3.5
25	12.7	3.1

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 coating of lacquer or oil must be removed from metal surfaces with 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 this case **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 6.4 mm. Maximum recommended joint width is 25 mm. In joints up to 13 mm wide, the sealant depth should be equal to the joint width. In joint 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 materials 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 minimise 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 **NL:** 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 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 materials are completely blended with a uniform colour. 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 sealant 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 bottom up or from the inside out to avoid entrapping air. The gun nozzle should be the largest size which can 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-levelling.

Clean Up

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

Precautions / Limitations

- Store at temperature 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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