

SELECTION & SPECIFICATION DATA

Generic Type	Two-part polysulfide expansion joint sealant.
Description	TAMMSFLEX NS is a two-part, elastomeric, polysulfide caulking and sealing compound and is supplied by a Carboline sister company (Euclid Chemical). It cures at normal temperatures creating a tough elastomeric seal that adheres tenaciously to masonry, metal and wood. It will withstand repeated expansion and contraction and remain resilient through daily and seasonal cyclic changes in temperature. It has excellent chemical, solvent, and water resistance and will withstand joint movement of up to $\pm 25\%$. It is to be used as a general purpose expansion joint sealant designed for splash and spill and secondary containment of moderate strength acids, alkalies and some solvents typically found in industrial chemical processing.
Features	Complies with ASTM C920, Type M, Grade NS, Class 25, Use NT, M, G, A, and O
Color	Gray-Brown
Solids Content	By Volume 100% +/- 0%
Theoretical Coverage Rates	<p><i>Joint Depth x Joint Width - Coverage given in linear ft/gal (linear m/L)</i></p> <p>1/4" (.64) x 1/4" (.64) - 308 LF/gal (25) 3/8" (.95) x 3/8" (.95) - 105 LF/gal (8) 1/2" (1.27) x 1/2" (1.27) - 77 LF/gal (6.2) 5/8" (1.6) x 1/2" (1.27) - 61 LF/gal (4.9) 3/4" (1.9) x 1/2" (1.27) - 51 LF/gal (4.1) 7/8" (2.2) x 1/2" (1.27) - 44 LF/gal (3.5) 1" (2.5) x 1/2" (1.27) - 38 LF/gal (3.1)</p> <p>Coverages listed are theoretical, actual coverage's may vary based on substrate and site variations.</p>

SUBSTRATES & SURFACE PREPARATION

General	Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
Concrete	Concrete: Clean and dry. Remove all loose, unsound concrete. Do not apply coating unless concrete has cured at least 28 days @ 70°F (21°C) and 50% RH or equivalent. Prepare surfaces in accordance with ASTM D4258 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete may require filling/surfacing.

PERFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

Test Method	System	Results
100% Modulus	Tammsflex NS	50 psi
200% Modulus	Tammsflex NS	80 psi
Hardness (ASTM D2240)	Tammsflex NS	Shore A 25 to 30
Percent Elongation (ASTM D638)	Tammsflex NS	500-550%
Tensile Strength (ASTM D638)	Tammsflex NS	150-200 psi

Tammsflex NS (fka Plasite® 935)

PRODUCT DATA SHEET



MIXING & THINNING

Mixing | Supplied in a 1.5 gallon kit packaged in a 2 gallon container. A separate container of catalyst (Part B) is included in the container with the base material (Part A). The catalyst (Part B) is added to the base material (Part A) in the original container. The material is mixed with a Jiffy mixer attached to a slow speed drill (250 to 300 rpm). Although mixing can be accomplished by hand, it is not generally recommended. The Parts A and B are in contrasting colors to ensure thorough mixing. Mix until colors are blended into one uniform color without streaks.

Pot Life | 1 to 2 hours at 70°F

APPLICATION PROCEDURES

General | 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.

Joint Design:
The minimum width of the joint should be 4 times the anticipated movement but not less than 1/4" (0.64 cm). Maximum recommended width is 1" (2.5 cm). The depth of the joint should be no more than one-half the width without exceeding the minimum/maximum limits. In joints up to 1/2" (1.3 cm) wide, the sealant depth should be equal to the joint width. In joints from 1/2" (1.3 cm) to 1.0" (2.5 cm) wide, sealant depth should be 1/2" (1.3 cm). For joints over 1" (2.5 cm) wide, sealant depth should be 1/2 of the width. In joints deeper than 1/2" (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. 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.

Do not apply if the temperature of the sealant, air, or substrate is below 40°F (4°C)

CURING SCHEDULE

Surface Temp.	Final Cure	Tack Free
70°F (21°C)	7 Days	18 Hours

* Relative humidity of 50%

For water immersion conditions, allow TAMMSFLEX to cure for 7 days at 70°F (21°C) prior to filling with water.

CLEANUP & SAFETY

Cleanup | Clean tools and equipment immediately after application with Thinner 2 or acetone. Clean up spills and drips while still wet with the same solvents

Safety | Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions.

Ventilation | While this is a solventless product, it is common practice when used as a tank lining or in enclosed areas to circulate the air during and after application until the coating is cured. Follow all current OSHA requirements for respirator use.

Caution | If product is thinned with flammable solvents, keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.



PACKAGING, HANDLING & STORAGE

Shelf Life | 12 months at 70°F

Storage Temperature & Humidity | Store at temperature between 50°F (10°C) to 90°F (32°C)
Protect from moisture

Shipping Weight (Approximate) | 21 lbs. per standard 1 ½ gallon kit

WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated.