

TAMMSFLEX 90

SEMI-RIGID POLYURETHANE JOINT FILLER FOR INDUSTRIAL FLOORS



EUCLID CHEMICAL

PACKAGING

TAMMSFLEX 90 is packaged in a 3 litre kit: Tammsflex 75/90 Base, Tammsflex 90 Activator, Stonclad UT Pigment Paste

APPROXIMATE YIELD

Width	Joint Depth		
	40mm	50mm	75mm
5mm	5.0m/lt	4.0m/lt	2.6m/lt
7.5mm	3.3m/lt	2.6m/lt	1.7m/lt
10mm	2.5m/lt	2.0m/lt	1.3m/lt

CLEAN-UP

Clean equipment immediately after use with Pro-Struct 105 Brush Cleaner and rinse with clean water.

SHELF LIFE

12 Months in original, unopened container and if stored in dry conditions between 15°C to 35°C.

DESCRIPTION

TAMMSFLEX 90 is a solvent-free, 3-component polyurethane joint filler designed to cure to a semi-rigid state, even under low temperature and damp conditions. It is an ideal joint filler for industrial floors where heavy loads and various chemical spillages are encountered, reducing spalling of joint edges.

PRODUCT CHARACTERISTICS

FEATURES / BENEFITS

- Tough polyurethane performance
- Suitable for filling cracks in old floors
- Concrete construction and control joints
- Freezer floors
- Excellent chemical resistance to dilute acids and alkalis
- Industrial and commercial floors
- Protection of shoulders against edge breaks, reducing floor repairs

PRIMARY APPLICATIONS

- Non-moving control and construction joints
- Cracks and joint repairs for floors
- Reduces edge breaks caused by hard wheeled material handling traffic
- Industrial and commercial floors
- Supports joint edges in warehouse floors

JOINT DESIGN

It is recommended that joints be designed so that the movement does not exceed 5% of the joint width. The joint configuration should be such that the full depth of the joint or crack be filled for proper load transfer. Avoid the use of backing cord or other material to reduce volume. Only used if required to prevent material loss during application. TAMMSFLEX 90 should be placed at a minimum depth of 40mm x 5mm wide. All joint edges or cracks should be squared, dust-free, dry and clean. For porous substrates, it is recommended that all sides be primed with Stonprime 639 solvent-based primer.

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

TYPICAL PROPERTIES	TAMMSFLEX 90
Pot Life	15 to 30 minutes
Shore A, ASTM D2440	85 to 90
Compressive Strength	20 to 30 MPa
Tensile Strength	11 MPa
Adhesion to Concrete, ASTM D4541	1.7 MPa Concrete Failure
Cure Time	
Initial Set	3 to 5 hours
Light Traffic	24 hours
VOC Content	27 g/litre
Movement Accommodation Factor	<5%
Elongation	7%

Tammsflex 90 (2) July 2023 replaces November 2022

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DIRECTIONS FOR USE

Scope of Work (BOQ): Prepare joints or cracks ensuring clean and dry before applying TAMMSFLEX 90 to fill joints to full depth.

Surface Preparation: All joints and cracks to be filled must be clean and dry. All oil, dirt, debris, paint and any other material that may be a bond breaker must be removed. The final step in cleaning must be the complete removal of all residue with a vacuum cleaner and oil-free compressed air. All facings must possess an open surface texture with all curing compounds and sealers removed. If this product will be used for filling floor cracks, the cracks must be routed and cleaned before filling. For proper installation, all edges must be squared off.

Joint Backing: To provide proper load transfer, TAMMSFLEX 90 must be filled to full depth of the joint or crack. Do not use backer rod or other fill material for the purpose of reducing volume. Dried silica sand, 1.5 to 3mm, may be used to fill the crack at the bottom of the joint to prevent three-sided adhesion.

Priming: TAMMSFLEX 90 does not require a primer before application. However, porous substrates and substrates that show areas of powdering should be primed with Stonprime 639 to seal cut joint sides. Allow the primer to dry before application of the sealant is started.

Mixing: Pre-mix each component prior to mixing together in a 5 litre mixing vessel for 3 to 4 minutes (mix the pigment pack to the base prior to adding the activator) mechanically using an impeller fitted to a variable speed drill. Make sure the sides and bottom of the container are scraped to ensure thorough mixing.

Placement: Mask edges and pour TAMMSFLEX 90, filling $\frac{3}{4}$ joint. Allow material to settle and complete filling within 1 hour to the level of the floor. Remove masking tape at initial set time to leave a neat joint line. If joints are to be over-filled, then shaving must be done once product has set. If shaving is done after 24 hours, then the product might have to be heated up to assist with shaving.

PRECAUTIONS / LIMITATIONS

- Based on ACI 302 recommendations, joint fillers should be applied as late as possible after construction to allow for minimal additional slab shrinkage. Consult ACI 302 comments regarding concrete shrinkage, joint filling and user expectations.
- TAMMSFLEX 90 material and all application equipment should be kept at ambient temperatures of 15°C or above.
- Do not use TAMMSFLEX 90 as an expansion joint sealant.
- Widening of the joint over time, beyond the limitations of the product, could result in splitting of the filler (refer to Joint Filler Maintenance Procedure).
- Contact surfaces must be clean, dry and primed for best adhesion.
- Joint edges must be thoroughly cleaned prior to filling, particularly if a floor sealer or densifier has been applied.
- Product may discolour if constantly exposed to exterior UV radiation.
- In all cases, consult the material safety data sheet before use.

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