L&M Construction Chemicals, Inc.

TECH DATA

JOINT TITE 750™

Rapid Curing, Polyurea Based, Control Joint Filler

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PRODUCT DESCRIPTION

JOINT TITE 750 is a self-leveling, 100% solids, two component, rapid curing, polyurea control joint and crack filler. **JOINT TITE 750** is designed to fill interior random cracks, damaged control joints, saw cut control joints, and construction joints in industrial concrete floors. **JOINT TITE 750** is designed specifically for commercial, retail, and manufacturing floor applications which receive high volume vehicle traffic, such as fork lift or hard rubber wheel carts. **JOINT TITE 750** is flexible, allowing normal slab movement, yet strong enough to protect the vertical edges of concrete joints from spalling under extreme loading. **JOINT TITE 750** can be placed in a wide temperature application range of 20°F-150° F.

Basic Use: This product is designed to protect interior horizontal, non-moving control joints and construction joints. Its use prevents deterioration of unfilled joint edges caused by high volume traffic of hard rubber wheeled vehicles. **JOINT TITE 750** is recommended for use in industrial facilities, warehouse floors, manufacturing facilities, cold storage and food processing facilities, transportation facilities, wholesale stores, health, educational, convention, recreation and government facilities.

FEATURES & BENEFITS

- *Reduces floor maintenance costs.*
- *Remains flexible, even in frigid temperatures*
- *Rapid Return to Service in 60 Minutes*
- *Odorless, No Toxic Vapors*
- *Self leveling*
- *Low moisture sensitivity*

ESTIMATING

The **JOINT TITE 750** system consists of two component units packaged as follows: **Ten Gallon Unit:** 5 gallons of "A" side and 5 gallons of "B" side. See back panel for coverage estimates.

Colors: Standard color is medium gray. Special colors available upon request, with minimum order quantities.

TECHNICAL DATA

Applicable Standards:
USDA approved for incidental food contact areas.

Typical Properties at 75° F (25° C):

Color	Medium Gray
Shore A Hardness ASTM D 2240	80-85
Tensile Strength ASTM D 412	1500(10)
Adhesion to Concrete ASTM D 4541	450 psi
Set Times at 75°F (25°C)	
Tack Free	5 minutes
Light Traffic	45 minutes
Full Traffic	1 hour
Mix Ratio	1:1
Solids Content	100%
Shrinkage	Negligible
VOC	Negligible

INSTALLATION

New Floor Joint Preparation: New saw cut control joints and construction joints require cleaning before installation of **JOINT TITE 750**. Using a dustless grinder with an abrasive or dry diamond blade, "chase" the existing control joint to remove the presence of all concrete laitance that normally builds up on the joint face. Residual dust or debris must be brushed free by using a nylon bristle brush or wire wheel mounted to an angle grinder followed by vacuuming or air blasting. Simply raking or blowing out joints is not an acceptable cleaning method. Protect exposed concrete surfaces from staining caused by product overflow with tape or protective stain protector.

Interior Random Crack Preparation: The concrete surface must be structurally sound, cleaned and free of all dirt, grease, loose concrete and moisture. Use a grinder with a "U" shaped diamond blade to chase out the random crack. Cracks with extensive edge spalling should be cut back to sound concrete, then chipped to remove remaining concrete. Always prepare the joint to have regular and vertical sides. ***Crack Depth:*** Prepared crack depth in random cracks should be minimum of 3/4 inch.

Damaged Joints Preparation: Remove any existing joint material within the joint by first cutting and removing by hand. Using a grinder with an abrasive or dry diamond blade, chase out the joint area. Special care should be taken to remove all foreign material, leaving a clean, dry, and properly prepared concrete surface. Joints with extensive edge spalling should be cut back to sound concrete. Remove residual dust and debris by using a nylon bristle brush or wire wheel mounted to an angle grinder. The repair area must be clean and dry to permit proper bonding.

JOINT TITE 750

Joint Depth: Sealant depth in damaged horizontal saw cuts or preformed control joints should be a minimum of 1 inch depth. Joints exceeding 1 inch in width should be equal depth to width. Contact L&M if joint edges are spalled to a width of 2 inches or greater.

PRIMING

No primer is necessary under normal, surface dry interior applications. Installations that will be subjected to excessive water or constant ponding or water must be dried and primed before installation of **JOINT TITE 750.** All interior/exterior applications where the concrete surface is damp or below freezing should be primed. **L&M** primers should be applied with nylon or bristle brushes. Do not pond or puddle primer. Do not apply in the presence of water.

PLACEMENT

Recommended Installation Method: Because of its short work life and quick cure time, **JOINT TITE 750** can be installed only through a plural component mechanical pump system. Do not attempt to mix by hand.

Mixing: Precise and accurate mixing of polyurea components is critical to the long-term performance of this product. Prior to dispensing, thoroughly mix the resin "B" side prior to mixing components together to redistribute any settlement that occurred during shipment. Due to the fast setting nature of this product, all mixing is to be done only through a 3/8" wide, 12 inch minimum, 40 element static mixing wand fitted onto the plural pump. All necessary mixing is completed as the mixed product exits the terminal end of the mixing wand.

Filling Steps: With constant pressure, deliver **JOINT TITE 750** in one pass into the properly prepared joint or crack, and overfill the joint well slightly by 1/16 inch. Excessive overfill will waste product and may cause surface staining. After 45 minutes, trim excess product using an 8" mastic scrapper with a razor blade insert, creating a smooth transition across the joint or random crack.

Machine Dispensing: There are plural component pumps that have been specifically designed for installing **JOINT TITE 750** and similar type products. Select pumps must be low pressure, 1:1 ratio, duplex pump systems with a delivery capability of 3/4 GPM. Contact L&M for specific equipment recommendations.

CLEAN-UP: Cured product may be disposed of without restriction. Excess liquid "A" and "B" material should be mixed together and allowed to cure and solidify, then disposed of in the normal manner. Product containers that are "drip-free" may be disposed of according to local, state and federal laws. Use disposable or plastic tools such as cardboard trowels or plastic buckets whenever possible. It is recommended that metal tools be cleaned within one hour of use by cutting or peeling cured material from tool.

FOR BEST RESULTS:

Intended for interior use and non-moving joints only. Because of the quick, tack-free cure time of **JOINT TITE 750**, it can only be installed through plural component mechanical pump system.

Per ACI 302 recommendations, defer joint filling as long as possible. Newly poured concrete slabs should cure for a minimum of 90 days to minimize the effects of related shrinkage and hydration on the joint opening.

Not recommended for installations below 20°F, such as operating freezers.

In food coolers, **JOINT TITE 750** should be installed after the floor surfaces have thoroughly cured and have been temperature stabilized at normal operating temperatures for at least 5 days. Maintain unmixed product temperature at approximately 70°F during installation in cold floor areas.

JOINT TITE 750 should not be used to fill or repair moving joints or exterior cracks, damaged control joints or new construction joints if deck or slab movement from thermal cycling is expected.

Joints filled with **JOINT TITE 750** are very low maintenance. If, however, the product is installed into joints before the maximum curing shrinkage of the concrete has occurred, it is common for separation and a void to appear. This void may appear at the bond line or within the **JOINT TITE 750**. This is normal and expected, and is not a failure of the product. These voids should be cleaned and refilled after approximately six months.

JOINT TITE 750 contains aromatic isocyanates. Exposed surface discoloration of product may be caused by exposure to sunlight or other ultraviolet light sources. However, the durability of the hardened product will remain unaffected.

Install **JOINT TITE 750** full depth into joint-well to provide maximum protection from edge spalling. In construction joints deeper than 2 inches, minimum depth should be 2 inches. Install closed cell backer rod in construction joints deeper than 2 inches to prevent leakage and to control filler depth. Do not install backer rod in saw cut control joints.

Food related facilities: JOINT TITE 750 is USDA approved and is acceptable for use in USDA/FDA facilities. Do not use in areas where existing food or food packaging can be contaminated.

PRECAUTIONS

Contains isocyanates. Wear protective gloves, hand creams, goggles and clothing when handling epoxy resins. Prolonged exposure may cause skin irritation, dermatitis or other allergic responses. Cornea damage can occur from

eye contact. Mix in ventilated area. Do not inhale fumes. Keep away from heat or open flame. Do not thin with solvent. Wear protective particle mask when grinding off overfill.

Please refer to Product Material Safety Data Sheet (MSDS) before using.

STORAGE/SHELF LIFE

Keep **JOINT TITE 750** containers tightly sealed and stored in a cool, dry place between 60°F and 85°F. Keep away from extreme heat, freezing and moisture. Shelf life of unopened containers is one year when properly stored. Component A is very sensitive to humidity. Use or properly discard unused component A within a short period of time after opening container.

WEBSITE

L&M's convenient internet website offers instant access to Tech Data Sheets, Material Safety Data Sheets, product updates, and other useful information. Visit www.lmcc.com and follow the easy steps. L&M is ready to respond to your concrete information needs - anytime - anywhere!

SHORT SPEC

033000 or 033540: Concrete Floor Joints, Interior: All saw cut floor joints and construction joints in the interior concrete floor shall be filled with 100% solids polyurea filler. Shore A shall be 80 or higher. Joint filler shall be installed per ACI 302 and manufacturer's recommendations. Concrete shall cure a minimum of 60 days before installation. **JOINT TITE 750** by L&M Construction Chemicals.

LIMITED WARRANTY

This product is warranted to be free of defects in material and workmanship, and conform to L&M Construction Chemicals ("L&M") quality control standards. All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose. Satisfactory results depend upon many factors beyond L&M's control. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from his or her direct use, indirect use or consequential to their use of the product. L&M shall not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use or inability to use the product. L&M's sole responsibility shall be to replace that portion of the product which proves to be defective. Any warranty claim must be made within six (6) months from the date of the claimed breach. This limited warranty applies only if the product was properly installed and used according to all instructions and was properly stored prior to use.

For Professional Use Only.

COVERAGE

Approximate Lineal Feet Per Gallon

Joint Opening - Inches

Depth Inches	1/8"	3/16"	1/4"	3/8"
3/4	200	135	100	70
1	150	100	80	50
1-1/2	100	70	50	34
2	75	50	40	25

Approximate Meters Per Liter

Joint Opening - mm

Depth mm	5mm	10mm
20	11	6
25	8	4
35	6	3
50	4	2

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