



U-MIX FLEX FOAM

SINGLE COMPONENT URETHANE INJECTION RESIN FOR CONCRETE REPAIR

PRODUCT DESCRIPTION: *Specco U-Mix Flex Foam Injection Resin* is a single component, low viscosity hydrophobic type polyurethane resin used for sealing water leaks through cracks in concrete structures. *U-Mix Flex Foam Injection Resin* reacts with water expanding in a free rise state 10 to 15 times the original volume. This reaction produces an impermeable, closed cell, but still flexible foam that displaces water and tenaciously adheres to the damp substrate. The flexibility of the cured *U-Mix Flex Foam Injection Resin* allows movement at the existing crack, thereby preventing transfer of stress to other areas of the structure. Typical uses include repair of leaking cracks or joints in both residential and commercial applications such as basements, garages, and parking structures.

BENEFITS:

- Single cartridge allows for application by regular caulk gun with a twist on application nozzle (no separate static mixing nozzle needed)
- Single cartridge size is ideal for small size crack repairs where pump injection is not practical
- Contains no toluene di-isocyanates (TDI) or solvents
- No premixing is needed

COMPOSITION: Single component hydrophobic type polyurethane

LEED CREDIT CONSIDERATIONS: Materials and Resources: **MR Credits 5.2:** Regional materials- Greater than 20% extracted, processed and manufactured regionally at production location: Kankakee, IL. 60901. 90% Content- Harvested within 500 miles.

PHYSICAL PROPERTIES (UNCURED)at 70° F (21°C):	APPROXIMATE VALUES:
Weight per Gallon (mixed):	8.66 +/- 0.10 lb./ gallon
Color/odor Component A-resin:	Light pale yellow liquid with isocyanate type odor
Viscosity-Brookfield:	200 cps +/- 10 cps
Flash Point:	>390° F (199°C)-open cup method
V.O.C. Content (% Volatiles):	<1% Contains no VOC components per EPA Method 24
Corrosiveness	Non-corrosive
Density:	Approximately 5# per cubic foot
Yield:	1 oz. U-Mix® generates or fills 1 cubic inch of void

PHYSICAL PROPERTIES (CURED)at 70° F (21°C):	APPROXIMATE VALUES*:
Elongation per ASTM D-412:	140%
Tensile Strength per ASTM D-412:	55%
Die-C Tear Strength per ASTM D-624:	8 pli
Density:	60 pcf
Shrinkage by Weight:	1-2%
Pot Life:	10 minutes
Toxicity:	Non-toxic
Yield:	1 oz. U-Mix® generates or fills 1 cubic inch of void

*Test values were generated while simulating U-Mix Flex Foam applied under pressure similar to typical field condition applications.

SURFACE PREPARATION: Remove all loose and deteriorated concrete, mortar and old repair materials from the area to be repaired. Blow debris and residue out of the crack and from the surface with compressed air to dry the crack as much as possible. Place plastic injection ports approximately 12 inches apart throughout the crack. Spacing of holes is normally 12 inches up to 24 inches apart depending on the width of the crack. The wider the crack, the greater distance of grout travel and the farther apart the portholes may be spaced. For sealing large cracks or active leaks, pack the crack with a fibrous material such oakum, steel wool or use *Specco Speccoplug* hydraulic cement to prevent rapid loss of the grout flowing from the crack.



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APPLICATION: Use **U-Mix® Surface Port and Paste Adhesive** to set the ports and seal the surface of the crack to be injected. After the Surface Port and Paste Adhesive has sufficiently set (typically 2 hours). Start the injection application at the lowest point for vertical cracks or at the narrowest point for the horizontal cracks. Continue pumping until the **U-Mix Flex Foam Injection Resin** begins to flow freely from the crack, then move to the next injector and resume pumping. When injection is completed, cured materials can be scraped and peeled from the wall. This product should be dry to the touch in one hour for small masses. Wait at least 48 hours before coating. Please contact the coating manufacturer for any questions regarding compatibility of primers or paints.

CAUTIONS: Do not inject **U-Mix Flex Foam Injection Resin** into frozen, frost filled or icy cracks. Colder walls and concrete will extend the reaction time. Warmer walls will shorten the reaction time. Recommended application temperatures are between 55°F to 90°F (12.8°C to 32.2°C). Store away from excessive temperatures and moisture. Open cartridges should be used quickly to prevent the material from gelling in the cartridge.

GHS HAZARD RATINGS: DANGER:



Irritant: Respiratory Tract Irritation.



Health Hazard: Reproductive Toxicity

WARNINGS: HEALTH HAZARD & IRRITANT: Avoid ingestion, skin and eye contact and inhalation of the vapors. Avoid contact with skin and eyes. Wear protective clothing and safety glasses during application. Use with OSHA/NIOSH approved air (vapor) respirator. Keep away from food and drink. Do not take internally. **FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.** Refer to product S.D.S. (SAFETY DATA SHEET) for FIRST AID INFORMATION, or any related health and safety information before using this product. For medical emergencies only, call INFOTRAC @ 800-535-5053.

H.M.I.S. CODES:

HEALTH = 2, FLAMMABILITY = 1, REACTIVITY = 1, P.PROTECTION = G

SHIPPING NAMES:

Compounded resin containing the following components: Diphenylmethane Diisocyanate Mixed Isomers / CAS# 10 26447-40-5, Methylene Bisphenyl Isocyanate (MDI) < = 10 101-68-8, MDI Prepolymer 15-35 ND.

Not Regulated by D.O.T. if under R.Q. of 5000 lbs. or more in a single container.

SHIPPING CLASS: Urethane Resin Mixture

ITEM 43940, SUB 2, LTL 65 Urethane Foam - Single component

PACKAGING: 10 ounces single cartridges (12 units / case), as well as 20 ounce dual cartridges (6 units / case)

STORAGE: Recommended between 60° (15°C) to 80° F (26.6°C)

SHELF LIFE: 1 year properly stored

WARRANTY: Specco Industries, Inc. (Specco) solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. No other representations or statements made by Specco representatives, in writing or orally, shall alter this warranty. Specco MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. **Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages.** Specco explicitly excludes any written or oral statements or implied warranty on the performance of an applied/installed product manufactured or sold by Specco or through a Specco authorized distributor or reseller. Specco has no control over adherence to Specco's application standards, site conditions, atmospheric variations, installer/applicator skill level or the determination of the suitability of any Specco products for a specific intended purpose. Buyer shall be solely responsible for determining the suitability of Specco's products for the Buyer's intended purposes. **REVISED: 02-02-20W**



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