

U-MIX® FLEX FOAM SINGLE COMPONENT URETHANE INJECTION RESIN

PRODUCT DESCRIPTION: Specco U-Mix® Flex Foam Injection Resin is a single component, low viscosity polyurethane resin used for sealing water leaks through cracks in concrete structures. U-Mix® Flex Foam reacts with water expanding in a free rise state 10 to 15 times the original volume. This reaction produces an impermeable, closed cell, hydrophobic type, flexible foam that displaces water and tenaciously adheres to the damp substrate. The flexibility of the cured U-Mix® Flex Foam 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 DIISOCYANATES (TDI) OR SOLVENTS... NO PREMIXING IS NEEDED.

COMPOSITION: Single component hydrophobic type polyurethane

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 and 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 Speccoplug hydraulic cement to prevent rapid loss of the grout flowing from the crack.

APPLICATION: Use Specco 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 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.

CAUTIONS: Do not inject U-mix® Flex Foam 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.

WARNINGS: Avoid contact with skin and eyes. Wear protective clothing and safety glasses during application. Keep away from heat, sparks and open flame. Use with adequate ventilation. Keep away from food and drink. Do not take internally. Refer to product M.S.D.S. (Material Safety Data Sheet) for further health and safety information. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

H.M.I.S. CODES:

HEALTH = 1, FLAMMABILITY = 1, REACTIVITY = 0, P.PROTECTION = E

SHIPPING NAMES:

Diphenylmethane-4, 4'-Diisocyanate & Modified MDI / CAS# 000101-68-8

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

PACKAGING: 10 ounces single cartridges, 12 cartridges / case

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

SHELF LIFE: 1 year properly stored

LIMITED WARRANTY: This product is warranted to be of merchantable quality when used according to the instruction herein. It is not warranted to be suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of the product as purchased, if found to be defective upon inspection by the manufacturer. This limited warranty is issued and accepted in lieu of all other expressed warranties and explicitly excludes liability for consequential damages. Buyer assumes all risk and liability resulting from the use of this product.

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