

U-MIX® JOINT FILLER

FLEXIBLE, RAPID SETTING, SELF LEVELING POLYUREA BASED ELASTOMERIC JOINT SEALANT

PRODUCT DESCRIPTION: Specco U-Mix® Joint Filler is a fast setting, two component, 100% solids, self leveling polyurea joint filler designed for use in interior concrete floor control and construction joints. U-Mix® Joint Filler is formulated to fill and repair cracks in industrial, heavy load flooring that is subject to hard wheeled traffic, and provide a smooth riding surface for forklifts or additional vehicles. U-Mix® Joint Filler allows typically 10-15% movement of the installed joint width, and provides a flexible and durable surface that will protect and reinforce the joint edges from potential spalling or decay. Typical applications include floor cracks, saw-cut joints, damaged control joints, or new construction joints in cold storage facilities, freezers and food processing plants where time and temperature are critical factors.

BENEFITS: FLEXIBLE 475% ELONGATION...REMAINS FLEXIBLE IN COLD TEMPERATURES... CURES IN A WIDE TEMPERATURE RANGE (-20F TO 120F)...EXCELLENT CHEMICAL AND WEAR RESISTANCE...LOW MODULUS PROVIDES IDEAL SHOCK ABSORBING PROPERTIES...EASY TO MIX 1 TO 1 PROPORTIONING RATIO BETWEEN COMPONENTS...NON-SHRINKING...MEDIUM GRAY COLOR

PHYSICAL DATA at 70°F (21°C):	APPROXIMATE VALUES :
Weight per gallon-Part A (Resin):	9.85 lb./gallon
Weight per gallon-Part B (Cure):	7.63 lb./gallon
Weight per gallon (Mixed):	8.74 lb./gallon
Color -Part A (Resin):	Clear amber
Color-Part B (Cure):	Pigmented medium gray
Mixing ratio (A to B):	1 part A to 1 part B by volume
Viscosity (Mixed):	500-600 cps
Yield (coverage):	1 gallon yields 231 cubic inches (3786 cubic cm)

TECHNICAL DATA at 70°F (21°C):	APPROXIMATE VALUES :
Gel time:	1-2 minutes
Tack free time:	3-5 minutes
Initial cure time (Light Traffic):	15-20 minutes
Final cure time (Full Traffic):	30-35 minutes
Tensile strength:	ASTM D-412 620 psi
Elongation:	ASTM D-124 475%
Abrasion (H18):	ASTM D-4060 850 mg (loss)
Tear Strength:	ASTM 624-C 150 psi
Hardness (Shore A)	ASTM-D-2204 75-80

SURFACE PREPARATION: Minimum age of concrete should be 28 days (fully cured). Surfaces must be structurally sound, clean, dry and free of dust, dirt, oils, salts, laitance, and other contaminants. Prepare joint facings to an open surface texture by grinding or sand blasting to provide a clean, absorptive substrate. Use a vacuum or pressure washing when done cleaning to ensure a debris and residue free surface. If the U-Mix® Joint Filler is to be used to fill floor cracks, all cracks should be routed out, cleaned, and all edges squared if possible. U-Mix® Joint Filler does not require any primer before application.

APPLICATION: Cartridges: Shake U-Mix® Joint Filler cartridges for 1 minute before applying to disperse the gray pigment on the component B side. Remove moon clips or insert from under the retaining nut and apply large 1/2 inch by 32 element static mixing nozzle to the cartridge end, then reattach mixing nut until snug.

Gallon size units: First mix Component B to a streak free consistency to disperse pigments in unit. Due to the extremely fast set times, U-Mix® Joint Filler requires machine mixing and placing by use of proportioning equipment. Follow mechanical pump manufacturer's equipment instructions for correct operation procedures. Note that increased material volume and temperature will shorten pot life. Mix only the amount of material that can be used in the recommended application time. Keep exposed pump reservoirs covered with plastic or tarps if left overnight to avoid contact from air.

DIRECTIONS: End users should be knowledgeable in standard joint repair procedures. Joints should not be filled in high temperatures with direct sunlight or while the slab is hot, ideal temperatures are between 65°F (18.3°C) to 85°F (25.4°C). To use Specco U-Mix® Joint Filler as a crack-filling adhesive, pour or inject the mixed material into the joint flush to the surface. Do not use any backer rods and fill entire depth of joint or crack. Wide joints and cracks may require a very small layer of sand at the bottom to control material seepage only, and not to replace the amount of needed U-Mix® Joint Filler resin. Whenever possible, Specco recommends that the full depth of the repair be filled with U-Mix® Joint Filler to ensure proper load transfer and maximum sidewall area contact. Excess material can be removed or scraped flush with a razor knife after approximately 45 minutes to 1 hour of cure. Clean tools and equipment with Specco B-41 ReSolve cleaning solvent, toluene or acetone.

COVERAGE STANDARDS FOR JOINT FILLING-LINEAL FEET PER GALLON:

INCHES DEPTH:	INCHES WIDTH:			
	1/4	1/2	3/4	1
1	77.0	38.5	25.7	19.3
1 1/2	51.3	25.7	17.1	12.8
2	38.5	19.3	12.8	9.6
2 1/2	30.8	15.4	10.3	7.7
3	25.7	12.8	8.6	6.4

CAUTIONS: U-Mix® Joint Filler is designed for use in joints with minimal movement, and is not recommended to fill exterior cracks, expansion joints or similar "moving" cracks, or related isolation joints if deck or slab movement from thermal cycling is expected. U-Mix® Joint Filler is an aromatic based poly urea, therefore, discoloration from exposure to direct sunlight or artificial ultraviolet light may occur. However, the discoloration will not affect physical strength or elongation properties. For optimum results, use between 65°F (18.3°C) to 85°F (25.4°C). During damp or cool conditions, the U-Mix® Joint Filler will cure slower. Protect finished work from traffic exposure until 30 minutes (approximate final set). Do not thin with any solvents, these will prevent proper cure. U-Mix® Joint Filler is not intended for sealing cracks under hydrostatic pressure. Do not use on oily or contaminated surfaces. **WARNINGS:** Avoid contact with skin and eyes. Wear protective clothing and safety glasses during mixing and application. Keep away from heat, sparks, and open flame. U-Mix® Joint Filler contains an alkaline amine and releases an amine odor. Use with adequate ventilation. Avoid breathing vapors and prolonged contact with the skin. 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 = 3, FLAMMABILITY = 1, REACTIVITY = 0, PROTECTION = E **SHIPPING NAMES:** Modified Polyurea (MDI based) Resin/ CAS# 25068-36-6/Not currently regulated by D.O.T. **SHIPPING CLASS:** Item 155250, SUB 2, LTL 65 – Polyurea Joint Filler (Gel Type) Binder **STORAGE:** 40° to 90° F **SHELF LIFE:** 1 year properly stored

PACKAGING: 22 oz (600 ml) dual cartridge (6/case), 2 gal (7.56L) and 10 gallon (37.8L) units

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. Revised – 10-15-09