



EUCO QWIKSTITCH

RAPID SETTING URETHANE CRACK & SPALL REPAIR

EUCLID CHEMICAL

DESCRIPTION

EUCO QWIKSTITCH is a two-component hybrid urethane repair liquid used to mend cracks in concrete, repair spalled joints and repair damaged or uneven concrete surfaces. EUCO QWIKstitch is an ultra-low viscosity material formulated to penetrate deep into cracks, mending them back together. Its fast cure time makes quick work of repair jobs; concrete repaired with EUCO QWIKstitch can be opened to heavy traffic in less than one hour. EUCO QWIKstitch can be mixed with aggregate to make a tough mortar perfect for quickly repairing pop-outs and spalls. In addition, bulk EUCO QWIKstitch can be colored with EUCLID UNIVERSAL COLOR PACKS.

PRIMARY APPLICATIONS

- Cracked concrete surfaces, interior and exterior
- Spalled floor joints
- Repair of pop-outs and delaminations on floors

FEATURES/BENEFITS

- Can be applied at a range of thicknesses with the use of clean, oven-dried silica
- Very fast cure time
- 33 colors available through the use of color packs
- Static mixers available with needle tips - for neatly injecting very narrow cracks
- Low viscosity - deep penetration into cracks
- Wide application temperature range: 0°F to 110°F (-18°C to 44°C)
- Low VOC and no solvent odor

TECHNICAL INFORMATION

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

PROPERTY	RESULT
Mix Ratio, Part A to Part B	1:1 by volume
Mix Ratio, sand to mixed liquid	2:1 by volume
Neat color	Part A: Clear/Amber Part B: Black Mixed: Dark Gray/Black
Gel Time at 75°F (24°C)	2 - 3 minutes
Tack Free Time at 75°F (24°C)	10 minutes
Viscosity	Part A: 60 cp Part B: 60 cp Mixed: 60 cp
VOC Content	≤5 g/L
Shore D Hardness ASTM D2240	70
Tensile Strength, 7 days, psi (MPa) ASTM D638	3,830 (28)
Tensile Elongation, % ASTM D638	16.3
Compressive Strength, psi (MPa) ASTM D695	1.5 hour: 4,590 (33) 24 hours: 4,835 (35)
Bond Strength, psi (MPa) ASTM C882	1,847 (12.8)
Water Absorption, % ASTM D570	0.25

Appearance: EUCO QWIKstitch is initially dark gray/black upon mixing but turns light gray after curing. When used with sand, the final color of the repair will depend on the type, color, and gradation of the sand. Manufactured or colored quartz can be blended on the jobsite to match the color of the floor. Neat EUCO QWIKstitch is not UV stable and will discolor when exposed to sunlight or interior UV light. Two gal (7.6 L) units can be pigmented through the use of EUCLID UNIVERSAL COLOR PACKS, which are available in 33 standard colors.

PACKAGING

EUCO QWIKstitch is packaged in cases of (12) 20 oz (0.59 L) dual cartridges with static mixers and retaining nuts included. Needle tip static mixers are available separately, in packages of 5. EUCO QWIKstitch is also available in 2 gal (7.6 L) bulk units consisting of 1 gal (3.8 L) Part A and 1 gal (3.8 L) Part B.

SHELF LIFE

1 year in original, unopened containers

SPECIFICATIONS/COMPLIANCES

Suitable for use in Canadian Food Inspection Agency inspected facilities

COVERAGE/YIELD (NEAT)

20 oz (0.59 L) cartridge: 33 in³ (540 cm³)

2 gal (7.6 L) bulk unit: 462 in³ (7577 cm³)

DIRECTIONS FOR USE

Surface Preparation: All dirt, oil, dust, foreign contaminants, and laitance must be removed to assure a good bond to the concrete. For repair of spalled concrete or pop-outs, a stiff wire brush or twisted wire wheel on a grinder can be used to remove all loose or unsound concrete. Cracks should be similarly cleaned with a diamond blade saw, wire brush or wire wheel. After preparing area, remove all dust and debris with an industrial vacuum and oil-free compressed air. All surfaces must be clean and dry before installation of QWIKstitch.

Environment: Condition EUCO QWIKstitch to room temperature, 60°F to 80°F (16°C to 27°C) before using. Any sand used with the product must be dry and kept at room temperature. Warmer material and/or application on hot concrete or in a warm environment will accelerate curing of EUCO QWIKstitch. Cold material, cold concrete, or application in a cold environment will delay curing. Heat cold concrete to remove any visible frost before application of EUCO QWIKstitch.

Readying Cartridges: Cartridges of EUCO QWIKstitch must be shaken well before using. After shaking, let cartridge stand for one minute to allow any entrapped air to disperse. Insert cartridge into a dual component, 300 ml x 300ml manual dispenser with a 1:1 mix ratio. Open the cartridge by first removing the clear retaining nut. After removing the retaining nut, remove the red plug. Save the retaining nut and plug; they can be re-inserted to save a partially used cartridge. Hold cartridge at a slightly upward angle and slowly dispense a small amount of material into a disposable container until both materials flow evenly from cartridge. Continue to hold cartridge & gun at an upward angle and install flow control and mixing nozzle onto cartridge. Next, point mixing nozzle straight up and slowly begin gunning material through the mixing nozzle until it reaches the tip. Point upwards at a 45° angle and dispense one stroke into a disposable container.

Crack/Spall Repair, Cartridges: Gun EUCO QWIKstitch directly into cracks, allowing adhesive to penetrate into the crack and top-off as needed. Kiln-dried medium grade (30 mesh) silica sand or dry floor grindings can be sprinkled on top of the wet EUCO QWIKstitch to add texture and closely match the appearance of the surrounding concrete. Alternately, larger cracks can be filled with dry, medium grade silica sand then saturated with EUCO QWIKstitch. Keep EUCO QWIKstitch flowing to prevent material from hardening in the nozzle. Mixed EUCO QWIKstitch will be tack-free in 10 minutes at 75°F (24°C). Excess material may be removed immediately or within 20 to 30 minutes after installation by scraping/shaving with a sharp blade. If necessary, cured EUCO QWIKstitch can be ground smooth with a brick rub or hand grinder approximately one hour after application.

Crack/Spall Repair, 2 gal (7.6 L) unit: EUCO QWIKstitch can be mixed with kiln dried medium grade (30 mesh) silica sand to create a mortar suitable for repairs ½ inch to 3 inches (1.3 to 7.6 cm) in thickness per lift. EUCO QWIKstitch mortars must be mixed, placed, and finished in less than 3 minutes, so only prepare an amount of EUCO QWIKstitch mortar that can be mixed and placed within that time. Thoroughly but quickly, mix Part A with Part B with a "Jiffy" mixing blade and drill at low speed for 20 seconds maximum. While one person is mixing A & B, have a second person swiftly add the sand at a ratio of 2 parts sand to one part mixed EUCO QWIKstitch, by volume. Make sure all sand is saturated and there are no clumps of dry sand remaining. Scrape bottom and sides of pail to assure good mix. Place and finish immediately.

Euclid Universal Color Packs: 2 gal (7.6 L) units of EUCO QWIKstitch can be colored using 1 EUCLID UNIVERSAL COLOR PACK (EUCO Pack) per unit. Prior to mixing the unit together with aggregate, stir 1 **color pack** into the part "A" side of the product until it is fully dispersed. Proceed with mixing as stated above. EUCLID UNIVERSAL COLOR PACKS are available in 33 standard colors, see EUCLID UNIVERSAL COLOR CHART for available colors. **NOTE:** EUCO QWIKstitch cures very rapidly. For this reason, do not allow mixed material to stop flowing for more than 3 minutes. If EUCO QWIKstitch cures inside the cartridge static mixer, remove cartridge from dispenser and replace mixer.

CLEAN-UP

Tools, equipment and general clean-up can be done before the product cures with MEK or acetone.

PRECAUTIONS/LIMITATIONS

- Wet substrates or wet sand can cause foaming of the EUCO QWIKstitch and result in a low strength, less durable repair.
- When used without sand, EUCO QWIKstitch will discolor when exposed to UV light.
- In all cases, consult the Safety Data Sheet before use.

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