

EUCO QWIKJOINT UVR

UV-RESISTANT POLYUREA FLOOR JOINT FILLER



EUCO CHEMICAL

PACKAGING

EUCO QWIKJOINT UVR is a 2-component product packaged in 40 litre kits:
20 litres Part A
20 litres Part B

COVERAGE

The following table gives guidelines on theoretical material estimates in linear metres/litre.

Joint Width	Joint Depth		
	38mm	51mm	63mm
4.8mm	5.5m	4.2m	3.2m
6.4mm	4.2m	3.2m	2.4m
9.5mm	2.6m	2.1m	1.6m

CLEAN-UP

Pro-Struct 105 Brush Cleaner may be used for clean-up of tools and equipment. Clean excess material before EUCO QWIKJOINT UVR has cured. Cured material will require removal by mechanical means.

SHELF LIFE

1 Year in original, unopened container.

SPECIFICATIONS AND COMPLIANCES

ACI 302 performance recommendations regarding construction joint fillers.

DESCRIPTION

EUCO QWIKJOINT UVR represents a new generation of polyurea technology with features and benefits unlike any other polyurea joint filler on the market. EUCO QWIKJOINT UVR resists fading from ultraviolet light greater than any existing product. It is a fast setting, semi-rigid polyurea, primarily used for filling construction and control joints in industrial and commercial concrete floors. EUCO QWIKJOINT UVR can be shaved flush with the floor shortly after placement or up to 24 hours later. EUCO QWIKJOINT UVR supports and protects joint edges from heavy loads and wheel traffic, reducing spalling of the joint edges.

PRODUCT CHARACTERISTICS

FEATURES / BENEFITS

- Unparalleled UV resistance
- Fast setting formula reduces downtime
- Large shave-time window allows for greater flexibility in scheduling joint filling operations
- Touch performance reduces floor joint repairs and maintenance
- Will cure in temperatures as low as -29°C
- No bubbles / foaming when used in damp joints
- Less moisture-sensitive than standard polyureas

PRIMARY APPLICATIONS

- Concrete construction and control joints
- Crack and joint repair for old floors
- Industrial and commercial floors
- Freezer floors

TECHNICAL INFORMATION

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

Property	Values at 25 °C
Gel Time	25 to 30 seconds
Shore D Hardness (ASTM D2240)	34 to 36
Shore A Hardness (ASTM D2240)	84 to 88
Tensile Strength at 7 Days (ASTM D412)	4.6 MPa
Elongation at 7 Days (ASTM D412)	220% to 260%
Shave "Window"	1 to 24 hours
Tack-free Time	3 to 4 minutes
Traffic Ready Time	Light Traffic 1 Hour
	Heavy Traffic 2 Hours
Adhesion to Concrete at 7 Days (ASTM D4541)	1.7 MPa

Chemical Resistance, ASTM D1308	
Acetic Acid, 10%	No effect
Alcohol, 10%	No effect
Ammonium Hydroxide, 10%	No effect
Brake Fluid	Swelled, softened
Diesel Fuel	Discoloured
Ethylene Glycol (antifreeze)	No effect
Gasoline	Stained
Hydrochloric Acid, 20%	Slight swelling
JP-4 Jet Fuel	No effect
Used Motor Oil	Stained
Salt Water	No effect
Sodium Hydroxide, 10%	Slightly discoloured
Sulphuric Acid, 10%	No effect
Xylene	No effect

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DIRECTIONS FOR USE

Surface Preparation: All joints to be filled must be clean and dry. All oil, dirt, debris, paint and any other material that may be a bond breaker must be removed. The final step in cleaning must be the complete removal of all residue with a vacuum cleaner and oil-free compressed air. All joint facings must possess an open surface texture with all curing compounds and sealers removed. If this product will be used for filling floor cracks, the cracks must be routed out and cleaned before filling. For proper installation, all edges must be squared off.

Joint Backing: To provide proper load transfer, EUCO QWIKJOINT UVR must be filled full depth of the joint or crack. Do not use backer rod or other fill material for the purpose of reducing volume. Dried silica sand, 1.5 to 3mm, may be used to fill the crack at the bottom of the joint to prevent material loss through the slab.

Priming: EUCO QWIKJOINT UVR does not require a primer before application. However, in specific instances, the use of a primer is recommended to promote adhesion.

Preparation of 40 litre Units:

Mixing: Due to its extremely fast set time, EUCO QWIKJOINT UVR requires machine mixing and placing. **** Slowly pre-mix Part A and Part B separately before using, with a slow speed drill and mixing paddle for 2 to 3 minutes.** Do not whip air into the Part B while mixing. Follow mechanical pump manufacturer's equipment instructions for operation.

NOTE: If EUCO QWIKJOINT UVR is to be stored in the dispensing pump overnight, place a sheet of plastic wrap directly on top of the liquid material in each tank to prevent exposure to air.

Placement for 40 litre Units:

EUCO QWIKJOINT UVR must be installed in the joint full depth. Joints should be slightly overfilled and shaved smooth with the surrounding joint edges, giving the floor joints a flat appearance. Shaving off excess EUCO QWIKJOINT UVR can begin approximately 1 hour after placement, and up to 24 hours later, depending on jobsite conditions such as the concrete and ambient temperatures.

PRECAUTIONS / LIMITATIONS

- Based on ACI 302 recommendations, joint fillers should be applied as late as possible after construction to allow for minimal additional slab shrinkage. Consult ACI 302 comments regarding concrete shrinkage, joint filling and user expectations.
- EUCO QWIKJOINT UVR material and all application equipment should be kept at ambient temperatures of 10°C or above.
- Surface and ambient temperature during applications should be between -29°C and 32°C.
- Do not use EUCO QWIKJOINT UVR as an expansion joint sealant.
- Widening of the joint over time, beyond the limitations of the product could result in splitting of the filler (refer to Joint Filler Maintenance Procedure).
- Contact surfaces must be clean and dry for best adhesion.
- Joint edges must be thoroughly cleaned prior to filling, particularly if a floor sealer or densifier has been applied.
- Coatings may not adhere to EUCO QWIKJOINT UVR. If the floor is intended to receive a seamless epoxy or urethane coating, refer to our "Epoxy & Urethane Coatings Application Guide".
- Product may slightly discolour if constantly exposed to exterior UV radiation.
- In all cases, consult the Safety Data Sheet before use.

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QWIKJOINT UVR Joint Filler Maintenance Procedure

The following procedures are provided for the cleaning and maintenance of QWIKJOINT UVR Joint Filler. These procedures may vary due to the type and amount of traffic over the joints, chemical exposure, and other in-use conditions.

DAILY CARE:

Dust and dirt removal from concrete floors, including over joint filler, is accomplished on a day-to-day basis through the use of large dust mops, which may be treated with a dust attractor. Commercial vacuuming is another useful alternative. Dry buffing with a soft bristled brush or an electric buffing machine will loosen most well-bonded dirt, which can then be removed with a dry mop or vacuum cleaner.

PERIODIC CLEANING:

Concrete floors and joint filler may need to be wet cleaned on occasion. Water soluble, non-acidic detergent should be added to the floor to emulsify surface soil. While cleaning, all dirty detergent water is to be removed using a vacuum, clean mop or squeegee to prevent re-depositing of dirt onto the floor. If mop rinsing is elected, change the rinse water frequently.

Deep cleaning with an electric scrubbing machine may be necessary depending on the amount and type of dirt and debris. Caution should be taken in the selection and use of scrubbing pads. Do not use materials that will scratch or mar the surface of the concrete or joint filler. Stubborn tire marks or other scuffs can normally be carefully removed with citrus-based industrial cleaners. Buffing the mark or scuff with the cleaner should remove the scuff or rubber residue.

JOINT FILLER SEPARATION REPAIR OPTION:

Because all concrete shrinks, and joints widen over time, it is common for semi-rigid joint filler to split or separate in the joint if it was installed before the slab shrinkage has fully occurred. This is not an indication of joint filler failure, as stated in ACI Section 9.10 of ACI 302.1 R-04 (Guide for Concrete Floor and Slab Construction). If correcting this separation is necessary or desired, the following methods can be used:

1. Clean dirt and debris from separation voids, solvent wipe the surface to remove any remaining grime, and refill (overfill) with QWIKJOINT UVR. Razor off excess filler flush with the concrete surface.

OR

2. Saw out top 12mm of joint filler using dustless concrete saw or crack chaser, remove any dirt and debris from filler surface, solvent wipe to remove any remaining grime and refill (overfill) with QWIKJOINT UVR. Razor off excess filler flush with the concrete surface.