HORIZONTAL REPAIR

EUCO QWIKstitch

RAPID SETTING POLYURETHANE HYBRID CRACK AND SPALL REPAIR

EUCLID CHEMICAL

PACKAGING

3 Component Unit containing:

Resin (Part A): 2.31lts

Hardener (Part B): 2.31lts

Aggregate (Part C): 20kg

STORAGE

Store in original, undamaged packaging in a clean, dry, protected location. Shelf life will be 12 months when stored as recommended.

DESCRIPTION

EUCO QWIKstitch is an ultra-low viscosity, two-component hybrid urethane repair liquid used to mend cracks in concrete. When supplemented with blended aggregate it becomes a tough repair mortar perfect for rapid and durable repair of concrete pavements and hardstands. It's fast cure time makes quick work of repair jobs and it can be used at temperatures down to -18°C. Concrete repaired with EUCO QWIKstitch can be opened to heavy traffic in less than one hour.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Can be applied neat, or at a range of thicknesses with the use of blended aggregate
- Very fast cure time. Can be opened to traffic in as little as 30 minutes
- Wide application temperature range: -18°C to 43°C
- Low VOC and no solvent odor
- No priming required
- Can be used for concrete & asphalt repairs

PRIMARY APPLICATIONS

Rapid crack and concrete repair applications including:

- Cracked concrete surfaces – interior and exterior
- Spalled, or damaged floor joints
- Repair to industrial floors and walkways
- Parking structures and concrete bridge repairs
- Airport runway & taxiway repairs
- Cold Room floor and entrance repairs

APPEARANCE

Part A: Clear/Amber. Part B: Black. Mixed: Grey.

COVERAGE

Approximately 12.31lts per unit.

TECHNICAL INFORMATION

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

PROPERTY		STANDARD	RESULT
Compressive Strength (Mortar)	1.5 Hours	ASTM C579B	28 MPa
	24 Hours		42 MPa
	7 Days		45 MPa +
Compressive Strength (Neat Resins)	1.5 Hours	ASTM D695	31.7 MPa
	24 Hours		34.8 MPa
Shore D Hardness		ASTM D2240	70
Tensile Strength: 7 Days		ASTM D638	23.5 MPa
Tensile Elongation		ASTM D638	16.3%
Bond Strength		ASTM C882	13.1 MPa
Water Absorption		ASTM D570	0.25%
Gel Time / Working Time		N/A	2 to 3 Minutes
Tack Free Time		N/A	10 Minutes
Cure Time		N/A	30 Minutes
Viscosity		N/A	60 cps
VOC Content		N/A	19 g/L

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DIRECTIONS FOR USE

Surface Preparation: Crack Repairs: Concrete must be a minimum of 21 days old. Clean the crack using a diamond blade, wire brush, or wire wheel. Remove all loose, unsound concrete, dirt, oil, dust, laitance and other contaminants from the prepared crack by blowing out with oil-free compressed air, or industrial vacuum to ensure optimum bond. All surfaces must be clean and dry before installation of EUCO QWIKstitch. **Spall Repairs:** Completely remove all loose, delaminated and weak concrete, oil, grease, laitance and other contaminants from areas to be repaired. All areas to be repaired must be clearly marked out. Saw-cut concrete within the outlines to a minimum depth of 10mm, ensuring all cuts are perpendicular to the surface, thus avoiding featheredging. Prepare concrete using acceptable mechanical means to obtain clean, sound and rough surfaces. Take care to prepare side edges of patches to ensure adequate bond. Avoid abrupt changes in depth. All surfaces must be clean and dry before installation of EUCO QWIKstitch.

Mixing: Mix only the amount of material that can be used within the working time of the product. Shake containers of Part A & Part B prior to use. Pour Part A into a bucket. Add part B and mix thoroughly with a drill and paddle mixer for 20 seconds. Slowly add the Aggregate (Part C) and continue mixing only until the aggregate is wetted out (approx. 30 seconds).

Placement: Mixed material must be placed immediately after mixing. **Note:** Working time is only 2 – 3 minutes for mixed materials at ambient temperatures of 24°C. Contact customer service on (02) 9638 2755 should you require more detailed placement guidelines.

Finishing: Placed EUCO QWIKstitch mortar will expand slightly after placement. After the repair is tack free (approx.10 minutes), use a diamond grinding disc to finish the placed mortar flush with the substrate. If repairing joint nosing, then new joints can be re-cut through the repair mortar as soon as the EUCO QWIKstitch is hard to the touch & won't ravel when cut.

PRECAUTIONS/LIMITATIONS

- Condition EUCO QWIKstitch to between 16 to 27°C before using.
- Warmer material and/or application on hot concrete or in warm environment will accelerate curing of EUCO QWIKstitch. Cold material, cold concrete, or application in a cold environment will delay curing. It is recommended to mix and place a small sample prior to actual placement to determine actual job site conditions.
- Wet substrate and/or wet aggregate can cause foaming of the EUCO QWIKstitch and result in lower strength, less durable repair.
- EUCO QWIKstitch mortar repairs should be a minimum of 10mm up to a maximum of 76mm per lift.
- Neat material will discolor when exposed to UV light.
- In all cases, the safety data sheet (SDS) must be read and understood prior.

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