



721 EPOXY INJECTION

DUAL - COMPONENT INJECTION RESIN



ECO FRIENDLY



HIGH STRENGTH



RAPID SETTING

DESCRIPTION

A low viscosity 2-component epoxy crack injection material based on modified epoxy resin and an amine hardening binder, solvent free.

USES

- Used as an injection epoxy repair for structural cracks in concrete and masonry.
- For joining and filling up of voids in areas of delamination.
- For bonding hollow plaster and floor toppings.
- For sealing non-movement joints in concrete and protects from corrosion.
- Impregnation of friable rock or porous stones.

CHARACTERISTICS

- Low viscosity penetrating treatment.
- Used even on hairline cracks.
- Sets in damp and dry conditions.
- Good adhesion to concrete, metal, ceramic, asbestos, wood surfaces, masonry, etc.
- High shear strength prevents elongation of cracks.

SURFACE PREPARATION

- Prepare the cracked area by removing deteriorated concrete, laitance, existing finishes, paint, etc. Using wire brushing technique, sanding or compressed air blasting.
- Remove heavy deposits using a detergent and wash clean with plenty of water. Allows to dry thoroughly.
- Blow the cracks and treated area to ensure complete removal of dust and loose particles, to avoid any counter pressure and to ensure an open system for the injected material to flow continuously.

SURFACE CRACK SEALING

- Pre-drill injection holes along both sides of the concrete along the crack line.
- Seal the surface of the crack line with Davco 720 epoxy putty necessary to retain the application of the Davco 721 under pressure until full cure.
- Mix the two components of Davco 720 until a smooth paste. Immediately after mixing, apply the mixed Davco 720 along the surface cracks overlapping on each side of the crack. Use the same Davco 720 compound to bond the injection ports. The injection ports should be placed 200 - 500mm apart.
- Cracks which are going all the way through the concrete should be sealed on both sides.

APPLICATION

- Mix all of Part A and Part B together in a clean container with an electric mixer at slow speed (max. 250 rpm) for at least 3 minutes. Avoid entraining air.
- Inject the mixed material into the cracks starting at the lowest port. As the material starts to flow out from the adjacent port, disconnect the injection hose from the former port and tighten the ends.
- Introduce the injection hose to the adjacent port until it flows out of the next port, repeat until all the ports has been locked out.
- Leave the injected materials to cure overnight. Remove the port and make good holes with Davco 720 epoxy putty. Grind to remove the epoxy material along the cracked line.
- For cracks which are going all the way through the concrete, check that the Davco 721 material has penetrated and if it does not occur, carry out the above sequence of repair on the other side.

* Refer to our method statement for more application details

BUILDING TRUST





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TECHNICAL PERFORMANCE OF MIXED MATERIAL

PROPERTIES	RESULTS	TEST STANDARDS
Specific Gravity	1.06 ± 0.02	-
Density	>1000	
ASTM 1475:1998 Viscosity (poises)	<10	ASTM C445:2001
Slant Shear Bond Strength - 2 days - 14 days	>6.9 N/mm ² >10.3 N/mm ²	ASTM C882:2005
Pot Life 30°C	1.5 hours	-
Cure Time 30°C	4 hours	-

Specifications are subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

PACKAGING

Davco 721 is available in 5kg set and 0.9kg set, packed into 2 components of:

3.33kg Part A Resin	1.67kg Part B Hardener	5kg set
0.60kg Part A Resin	0.30kg Part B Hardener	0.9kg set

COVERAGE

5kg set covers approx. 11m² per thickness of 0.3mm.

0.9kg set covers approx. 2m² per thickness of 0.3mm.

CLEANING

All tools and equipment can be cleaned with solvent immediately after use.

SHELF LIFE

Shelf life of up to 12 months when stored in unopened original packing in dry, frost-free conditions.

RECOMMENDATIONS

- This product contains solvent and is flammable.
- Do not use near naked flame or smoke during handling.
- Wear protective gloves and safety goggles.
- Avoid excessive inhalation.
- In case of skin contact or accidental eye contamination, wash with plenty of clean water.
- Refer to safety data sheet.

Disclaimer

The use of this product is beyond the manufacturer's control and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. Specifications are subjected to changes without prior notice. Before application, customers and users are requested to check that they have the latest version of this document from our website www.sika.com.sg

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