



EPOXYSEAL I766

Low Viscosity Epoxy Injection Grout

液態修補環氧基樹脂-裂縫灌注

1.0 Description

EPOXYSEAL I766 is a low viscosity 2-component epoxy crack injection material based on modified epoxy resin and solvent free amine hardening binder. EPOXYSEAL I766 is designed for structural reinstatement of cement based structure. Among other similar type of epoxy products, the special formulation of EPOXYSEAL I766 offers advantages as follow:

- 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

2.0 Technical Data

Properties	Results	Test Standards
Specific Gravity	1.06 ±0.02	---
Density	1040 kg/m ³	SS5 : Part B7 : 87
Viscosity	5 poise	ASTM D2393 : 86
Slant Shear Bond Strength		
- 2 days	9.2 N/mm ²	ASTM C882 : 91
- 14 days	18.0 N/mm ²	
Pot Life 30°C	1.5 hours	---
Cure Time 30°C	4 hours	---

3.0 Typical Use

- 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

4.0 Application

4.1 Surface Preparation

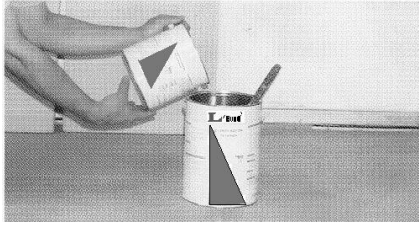
- Prepare the cracked area by removing deteriorated concrete, laitance, existing finishes, paint, etc. using wire brushing technique, sanding or compressed air blasting.
- Remove heavy deposits using a detergent and wash clean with plenty of water. Allows to dry thoroughly.
- Blow the cracks and treated 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.

4.2 Surface Crack Sealing

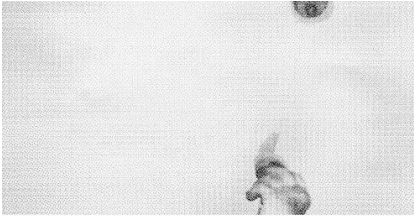
- Pre-drill injection holes along both sides of the concrete along the crack line.
- Seal the surface of the crack line MP Putty necessary to retain the application of EPOXYSEAL I766 injection under pressure until full cure.
- Mix the two components of MP Putty until a smooth paste. Immediately after mixing, apply the mixed MP Putty along the surface cracks overlapping on each side of the crack. Use the same MP Putty 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.



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4.3 Injection Stops



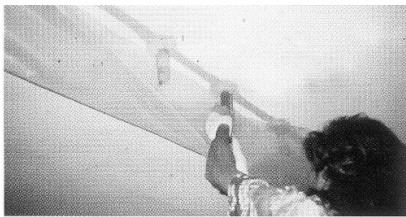
Part A is mixed with Part B in a separate clean container.



Fix the injection ports with MP epoxy putty.



Seal the crack line with MP epoxy putty.



Injection of EPOXYSEAL I766

Applying the EPOXYSEAL I766 injection system

Mix all the components of Part A Resin with Part B Hardener in a clean container until homogeneous. Do not Part-mix.

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 MP 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 EPOXYSEAL I766 injection material has penetrated and if it does not occur, carry out the above sequence of repair on the other side.

5.0 Cleaning

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

6.0 Packaging & Coverage

Epoxy injection 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

7.0 Health and Safety

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