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# ARDEX RA 140 E

## Epoxy Injection Resin Crack Repair

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For repair and filling of cracks and voids

Very low viscosity and easy to penetrate

Very high compressive strength and flexural strength

For internal and external applications

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# ARDEX RA 140 E

## Epoxy Injection Resin Crack Repair

### DESCRIPTION

ARDEX RA 140 E is a 2 part epoxy resin advent free, low viscosity injection grout for repair of honeycomb, voids and cracks in concrete. The product can be injected into the hairline cracks by the grout injection kit which is also available. ARDEX RA 140 E is formulated to have higher mechanical strength than concrete. It restores the concrete to its full strength.

### USE

- Repair of cracked concrete, to restore its original monolithic strength
- Filling of voids and honeycombs in concrete to restore the desired strength
- Repair of cracks resulting from non-repeating movement such as stress relief, temporary overload
- Consolidation of friable rock or stone, such as restoring structural members in older buildings

### FEATURES & BENEFITS

- Low viscosity and flowable
- High compressive strength
- Completed, user friendly system
- High flexural strength
- Excellent adhesion to concrete

### SUBSTRATE PREPARATION

Remove skim coat or plaster to expose the concrete surface. Dirt in the crack shall be removed by blow drying compressed air into the cracks. Seal the crack surface by applying ARDEX RA 242 thixotropic epoxy based bedding compound along the crack line and allow it to harden.

Install grout injection nipples along the crack line, at interval of 3 grout injection nipples per metre.

### APPLICATION

Add all the hardener pack to the base and thoroughly mix the two components together. Fix the mixed ARDEX RA 140 E into the grout injection cartridge and connect them to the nipples by means of the rubber bands provided. The appropriate pressure, built up by the rubber

bands, will ensure that the epoxy resin fills the crack completely.

### CURING

After the injected ARDEX RA 140 E has cured, remove the grout injecto nipples. Remove the surface seal by grinding or other means. Patch up the unevenness along the surface of the repair cracks. The repaired surface can be painted to match the colour scheme of the existing substrate.

### CLEANING

Use cleaning solvent immediately after application is completed.

### COVERAGE

Each 1 kg set is sufficient to fill approx. 1 m<sup>2</sup> at 1 mm thickness.

### TECHNICAL DATA

Colour	amber
Specific Gravity	1.02 g/cm
Flash Point	200°C
Viscosity	18 poise 25°C
Pot Life	50 minutes @25°C
Teck free time	8 hrs @25°C
Mechanical properties:	
Compressive Strength	70 N/mm <sup>2</sup> (7 days)
Adhesion to damp concrete	Excellent
Modules of Elasticity in tension	2000 N/mm <sup>2</sup>

### PACKAGING

ARDEX RA 140 E is available in 1 kg pack and 12 kg pack.

### STORAGE

ARDEX RA 140 E should be stored away from direct sunlight or heat before using as heat will shorten the pot life. If stored correctly, as detailed above, the shelf life of this product is 12 months.

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### SAFETY PRECAUTIONS

The product should be handled with care and should not be allowed to remain in contact with the skin. In the event of contamination, the effected parts should be washed with water. If there is contact with the eye, flush with water and contact a doctor. Wear protective gloves. When used in confined areas, provide accurate ventilation. Equipment should be properly disposed. Keep the product out of the reach of children. The MSDS is available upon request and online at [www.ardex.com.sg](http://www.ardex.com.sg).

### DISCLAIMER

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