



# PACTORep ECI 315

## Epoxy Resin for Crack Injection

### DESCRIPTION

**PACTORep ECI 315** is a two component, low viscosity, moisture insensitive epoxy resin based injection system.

### TYPICAL USES

**PACTORep ECI 315** can be used for sealing cavities and cracks in structural members such as columns, beams, foundations, decks, and water retaining structures. It can be used for bolt anchors where the gap between bolt & pocket is less than 4 mm. While forming an effective barrier against water infiltration, it also bonds the concrete sections together restoring the original structural strength and integrity.

### ADVANTAGES

- Low viscosity ensures deep penetration into fine cracks
- Improves bonding between two concrete surfaces and between concrete and steel
- Suitable for filling cracks in brick and block masonry
- Can be applied even in damp conditions
- Non shrink to ensure complete filling of cracks

### TECHNICAL DATA (TYPICAL PROPERTIES at 25°C)

Property	Test Method	Value
Component Two : Part A		Base
Component Two: Part B		Hardener
Mixed Form		Liquid
Colour		Yellowish
Viscosity		1.5 - 3.5 Poise
Mixed Density	ASTM D1475	1.06 kg/ltr +/- 0.02
Potlife		70 +/- 10 mins
Compressive Strength	BS 6319-2	70 N/mm <sup>2</sup> at 7 days
Flexural Strength	BS 6319-3	23 N/mm <sup>2</sup> at 7 days
Tensile Strength	BS 6319-7	25 N/mm <sup>2</sup> at 7 days
Bond Strength	ASTM D4541	> 2.5 N/mm <sup>2</sup> at 7 days
Solid Content	ASTM D1475	100% (Solvent free)
Application Temperature		- +5°C to +40°C

### APPLICATION INSTRUCTION

#### SURFACE PREPARATION

Surfaces should be dry, clean, and free from standing water, grease, curing compounds, mould oils and all loosely adhering particles. Cement laitance should be removed by mechanical means. Cracks should be opened by using cutting discs with straight edges. Loose particles and dust should be removed from the cracks using suitable air blowers.

#### MIXING

Entire contents of hardener is emptied into the base container and mixed thoroughly till a homogeneous mix is obtained. Slow speed drill machine with mixing paddle should be used for mixing. Mix for at least 2-3 minutes.

#### APPLICATION

Injection packers are fixed into the pre-drilled holes. Spacing of the packers shall depend on the width and depth of the cracks. Packers are placed in intervals to ensure that the material fills in cracks and cavities completely. **PACTOTop EBM 200** is used to seal the cracks between the packers on both sides of the through cracks and also for fixing of the packers. Allow **PACTOTop EBM 200** to harden for at least 8 hours before proceeding to inject **PACTORep ECI 315**. It can also be filled into horizontal cracks by gravity. For such applications, make sure that a lean cement sand bed is created all along the crack. Pour the material in between the sand bed and allow the material to flow inside the cracks. Excess material on the surface can be removed by scrapping.

#### LIMITATIONS

**PACTORep ECI 315** should not be used in cracks which are likely to move. At higher temperatures the pot life of the material will be considerably lower. It should not be used if there is running water during application or before setting of material. Part mixing of material should be avoided.

#### PACKAGING

1.5 ltr & 6 ltr set



**STORAGE AND SHELF LIFE**

Shelf Life 12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature/humidity may reduce shelf life.

**EQUIPMENT CLEANING**

Clean all equipments and tools with PAC Cleaner. Clean immediately after use. Hardened material can be removed mechanically.

**HEALTH & SAFETY**

PPE's Gloves, goggles & suitable mask must be worn.

Precautions: Contact with skin, eyes, etc. must be avoided. If swallowed seek medical attention immediately.

Hazard: Regarded as non-hazardous for transportation

Disposal: Do not reuse containers. To be disposed off as per local rules and regulations.

Additional Information Refer MSDS. Available on request.



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