

# ROCKMAX<sup>®</sup> EI



## LOW VISCOSITY TWO PART EPOXY RESIN INJECTION FOR STRUCTURAL REPAIRS

### INTRODUCTION

**Rockmax EI** is a low viscosity, two component epoxy resin designed for good penetration to small cracks. The cured material provides high early strength and conforms to ASTM C-881, grade 1, class 1 type B&C. The main purpose is to fill voids, cracks, holes in concretes and bonding in structural concrete repairs by injection or gravity-feed method.

### AREA OF USES

- Crack injection in structural concretes.
- Gravity feed of cracks.
- Bonding between concrete slabs and topping mortars.
- Seal holes or voids in concretes.
- Grouting dowel bars.
- As bonding agent for epoxy mortar.

### ADVANTAGES

- Ideal uses for structural repairs.
- High strength.
- Very good bonding to concretes.
- Deep penetration to cracks.
- Non Shrinkage.
- Can apply in dry or damp cracks.
- Solvent free.

### TECHNICAL PROPERTIES

Color (mixed): amber

Viscosity (mixed):

at 10°C degree: 300 C poise

at 20°C degree: 200 C poise

at 30°C degree: 140 C poise

Specific gravity: 1.1 kg/l

Solid content: 100%

Mix ratio (by volume): 2 : 1

Pot life (mixed):

at 30°C degree: 35-40 minute

at 40°C degree: 20-25 minute

Compressive strength:

1 day: > 55 N/mm<sup>2</sup>

7 days: > 65 N/mm<sup>2</sup>

Tensile strength:

1 day: > 25 N/mm<sup>2</sup>

7 days: > 35 N/mm<sup>2</sup>

Flexural strength:

1 day: > 45 N/mm<sup>2</sup>

7 days: > 55 N/mm<sup>2</sup>

Bonding strength to concrete: >3.5 N/mm<sup>2</sup>

Application temperature: +5°C to +35°C degree

### METHOD

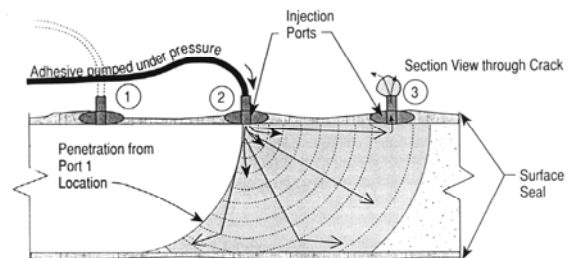
There are many methods for application this type of product. Different methods depend on site condition such as size of crack, vertical or horizontal, application methods etc. Please contact **Rockmax** for further information.

### INJECTION APPLICATION (GENERAL)

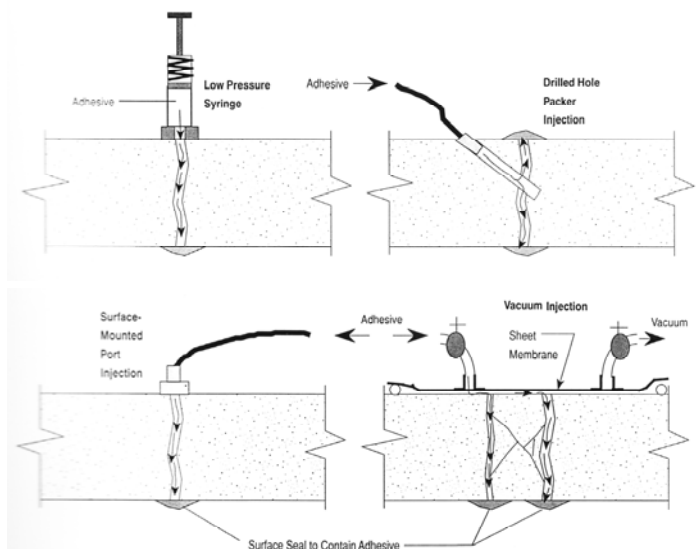
- Identify and mark crack line.
- Clean all dust and loose particles.
- Fix plastic packer along of crack line.
- Seal the surface of crack with epoxy paste.
- Inject from bottom to top.
- Work until end of crack line.
- Re inject again to make sure all crack was full fill.
- Remove all the packers.
- Make good surface by grinder machine.
- Recheck the surface.
- Trial test must be done before application.

### TYPICAL DETAIL

#### High pressure injection method:



#### Low pressure injection method:



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### CLEANING

Clean all tools and equipment immediately after application with solvent or thinner.

### LIMITATIONS

Maximum width of crack is not more than 3mm. Concrete structures must be at least 28 days old. Experienced special applicator needed to perform application. Crack must be non moving crack.

### PACKAGING

3kg set            part A: 2kg, part B: 1kg  
15kg set          part A: 10kg, part B: 5kg

### STORAGE

Storage in shade and dry condition Avoid from frost, water, moisture and high temperature.

### SHELF LIFE

12 months if kept follow instructions.

### PRECAUTIONS

Avoid contact with skin and eye. Goggle and glove must be use while application. Clean with plenty of soap and water when contact with material and see doctor as quick as possible. MSDS is available upon request.

### CONTACT DETAIL

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### *IMPORTANT NOTE!!*

*The technical information contained herein, while not guaranty, was prepared and approved by technical personnel and is true, accurate to the best of our knowledge. No warranty or guaranty is made regarding performance, stability or other factors beyond our control. Rockmax will welcome to be consultation of our performance and application. This technical datasheet supersedes and issue new edition without prior notice.*