

TECHNICAL DATA SHEET

290-190 EPOXY RESIN

High Strength Pourable Epoxy Resin

DESCRIPTION

Rockbond (290-190) Epoxy Resin (RB 8.00) is a two component - resin-hardener system, designed for use in civil engineering and commercial construction applications where a high strength, low viscosity injection resin is required. Specially formulated for crack injection, and also widely used as a structural bonding agent and CFRP wet lay-up saturant.



SPECIAL PROPERTIES

- High mechanical and adhesive strengths.
- Injection temperature range anywhere between 5°C and 30°C.
- Strong bonding of concrete, steel reinforcing, holding down bolts and bearing plates.
- Easy application and excellent flow characteristics.
- Highly resistant to impact and vibration.
- Can be used on dry or damp substrates and gives excellent adhesion to both.
- Does not become brittle.
- Low viscosity
- Suitable for gravity applications

USES

- Fills and seals voids in structures such as bridges, columns, foundations and water retaining structures. Seismic strengthening projects.
- Crack injection resin
- Sealing voids where water/moisture is penetrating.
- Sealing cracks prior to screeding.
- Structural bonding.
- CFRP wet lay-up saturant

SURFACE PREPARATION

Thoroughly clean all surfaces ensuring they are free of all dirt, dust, oil etc. If necessary, remove any cement laitance by scabbling or sandblasting the surface. The surface shall be free of any standing water, blowing out with oil free, compressed air.

MIXING INSTRUCTIONS

Mixed in a 3:1 ratio, Part A : Part B by weight of product. Add the entire contents of Component B to Component A. Mixing together for at least 3 minutes. Has a shelf life of two years from date of production.

APPLICATION PROCEDURE

Apply (290-190) Epoxy Injection Resin (RB 8.00) directly into cleaned and prepared cracks.

If applying through injection nipples, have these spaced at 300 to 500mm intervals.

Injection nipples can be bonded, and the surface of the crack sealed, with RB 8.52 HY200 Epoxy Chemical Anchor.

Allow the HY200 Epoxy Chemical Anchor to cure then inject the resin into each nipple, working along the crack and capping the nipples as you go.

Resin can be injected using standard epoxy injection equipment, Rockbond injection syringes or black caulking cartridges.

Once epoxy resin has cured, remove nipples and grind crack surface to desired finish.

Nipples can be removed after 24 hours if temperature is above 12degC. For other applications, please contact Rockbond's Technical Team for application methodologies.

PACKAGING

290/190 Epoxy Injection Resin (RB 8.00) is available in 4ltr, 12ltr and 240ltr kit sizes.

IMPORTANT NOTE

290-190 Crack Injection Resin should be left for 5 to 7 days to fully cure before full structural integrity is achieved. RB8.00 will not cure in temperatures below 5°C. The temperature at which RB8.00 Crack Injection Resin is stored 24 hours prior to mixing will govern its pot life when mixed.

HEALTH AND SAFETY

When handling or mixing Rockbond Epoxies use common sense safety practices. To help prevent health problems refer to the Material Safety Data Sheets (MSDS) for detailed product safety information.

TECHNICAL DATA

Penetration down to: < 0.2mm

Density: Approx 1.1kg/litre
Service Temp: <70 °C
Application Temp: 5°C - 30°C
Shrinkage: Negligible
Compressive Strength: 24hours: 35 MPa
7 days: 45 MPa

Flexural Strength: 14 MPa approx.
Tensile Strength: 25 MPa approx.
Pot Life: 5°C : 75 mins
10°C: 60 mins
20°C: 20 mins
30°C: 10 mins

Coverage Rate: Approx. 3 to 5m²/litre/coat on floors, depending on porosity.

Colour: Clear straw colour when mixed.

TECHNICAL INFORMATION

Should you have any queries, or require further information, please contact our **Technical Sales Team: +64 4 568 5401**