ROCKBOND
MAKING CONCRETE STRONGER

RB 8.22

TECHNICAL DATA SHEET

QUAKEBOND INJECTION RESIN

High Strength Pourable/Injectable Epoxy Resin

DESCRIPTION

Rockbond 8.22 QuakeBond Epoxy Resin is a two component – resin-hardener system, designed for use in seismic strengthening, civil engineering and commercial construction applications where a high strength, low viscosity injection resin is required. QuakeBond injection resin is specially formulated for crack injection and is also widely used as a structural bonding agent.

SPECIAL PROPERTIES

- 2:1 mixing ration (resin : hardener)
- 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.
- 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 – suitable for use in 2:1 ratio pump.
- Sealing voids where water/moisture is penetrating.
- Sealing cracks prior to screeding.
- Structural bonding.

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 crack should be free of any standing water, blowing out with oil free, compressed air.

MIXING INSTRUCTIONS

Mixed in a 2:1 ratio (Part A : Part B) by volume 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 8.22 QuakeBond Epoxy Injection Resin 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.
Allow 10 mins for the HY200 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 blanck caulking cartridges.
Once epoxy resin has cured, remove nipples and grind crack surface to desired finish.
Nipples can be removed after 24 hours if the temperature is above 12degC
For other applications, please contact Rockbond's Technical Team.

PACKAGING

QuakeBond Epoxy Injection Resin (RB 8.22) is available in 30ltr, 300ltr and 600ltr sizes.

IMPORTANT NOTE

QuakeBond Crack Injection Resin should be left for 5 to 7 days to fully cure before full structural integrity is achieved. Epoxy will not cure in temperatures below 5°C. The temperature at which 8.22 QuakeBond 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:	< 0.3mm
Density:	Approx 1.05kg/litre
Service Temp:	<70 °C
Application Temp:	5°C - 30°C
Shrinkage:	Negligible
Compressive Strength:	24 Hours: 35MPa 7 days: 50 MPa
Flexural Strength:	14 MPa approx.
Tensile Strength:	25 MPa approx.
Pot Life:	5°C : 120 mins 10°C: 90 mins 20°C: 30 mins 30°C: 20 mins
Viscosity:	144cP
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**