

TECHNICAL DATA SHEET

EPOXY GROUT 290-190

High Strength Pourable Epoxy Grout

DESCRIPTION

Rockbond (290-190) Epoxy Grout (RB 8.01) is a three component – resin-hardener-filler system, designed for use in civil engineering and commercial construction applications where a high strength, free flowing, self-levelling epoxy grout is required. The filler content of the system is a blend of very fine silica sands which is added and mixed in after the ADR 290 resin and the ADH 190 hardener have been mixed together.



SPECIAL PROPERTIES

- Develops high early strength that is much greater than the tensile and flexural strengths of concrete.
- Strong bonding of concrete, steel reinforcing, holding down bolts and bearing plates.
- Resistant to chemical attack from dilute acids and alkalis, salt water and sewage.
- Easy application and excellent flow characteristics.
- Highly resistant to impact and vibration.
- Can be used in underwater applications, displaces water without segregating.
- Can be used on dry or damp substrates and gives excellent adhesion to both.
- Can be pumped and/or injected with suitable equipment.

USES

Rockbond (290-190) Epoxy Grout (RB 8.01) is effective in many applications; the following are some uses for which it is particularly appropriate.

- Grouting under machine bases and under bridge bearings plates
- Filling of cavities and voids in concrete
- Grouting of steel reinforcing starters into concrete
- Grouting of balcony handrail posts, holding down bolts etc into existing concrete or masonry.
- Widely used in seismic strengthening projects.
- Levelling screed for high-wear applications.

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. To all steel surfaces remove all rust, oil, grease or any paint film by grit blasting. Preparation of steel surfaces must be done just before application of grout.

MIXING INSTRUCTIONS

Add the entire contents of Component A (ADR 290) and Component B (ADH 190) and mix together with a mixer attached to a slow speed electric drill until fully blended, then slowly add Component C (blended silica sands) while mixing until a lump free and uniform pourable grout is achieved. The mixing ratio by volume of components A:B:C = 3:1:4. When cavity to be grouted has less than 10mm clearance, quantity of Component C can be reduced by up to 50%.

CLEANING

Tools and equipment should be cleaned immediately after use with "MEK" solvent or "Esol" blended solvent.

PACKAGING AND SIZE

(290-190) Epoxy Grout (RB 8.01) is available in 4ltr, 8ltr, 24ltr and 480ltr kit sizes.

APPLICATION PROCEDURE

Apply (290-190) Epoxy Grout (RB 8.01) directly into prepared formwork, hole or void and allow to self level. All formwork must be sealed to be watertight. When grouting reinforcing rods, railing posts or holding down bolts, pour the epoxy grout into the hole in adequate quantity that when the bar, post or bolt is dropped in there will be a small overflow at the top of the hole.

It is important when grouting under base plates or bearing pads, that there is sufficient head or pressure to maintain the flow until the void is completely filled and the fluid has risen above the level of the plate. Vibrating or rodding can be done to ensure no air is entrapped, or breather pipes can be fitted to formwork.

IMPORTANT NOTE

When pouring (290-190) Epoxy Grout (RB 8.01) in enclosed horizontal applications, it is important to reduce air entrapment. ADR 290 Resin contains an air release agent however it is important to mix using a low speed drill with paddle designed to reduce air entrapment (i.e. non-helical). Pre-mixing ADR 290 Resin with the filler at least an hour before adding ADH 190 hardener is also beneficial for these types of applications. Further once all components are mixed allowed to stand for 10 minutes prior to pouring to allow any entrapped air to escape.

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

Compressive Strength:	95 MPa
Flexural Strength:	30 MPa approx.
Tensile Strength:	15 MPa approx.
Bond Strength	
– Sandblasted Steel:	20 MPa approx.
– Concrete:	3 MPa approx. (Concrete failure)
Application Thickness:	2mm Minimum/ 40mm Maximum
Pot Life (20°C):	1 Hours of fluid epoxy.
Yield:	An 8lt pack when mixed yields 6.8ltrs of fluid epoxy grout

TECHNICAL INFORMATION

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