

ROCKBOND (290-190) EPOXY GROUT

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 silica powders 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 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
- Filing 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.

SURFACE PREPARTION

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 powder) 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%.

APPLICATION PROCEDURE

Apply ROCKBOND (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.

CLEANING

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

PACKAGING AND SIZE

ROCKBOND (290-190) EPOXY GROUT (RB 8.01) is available in 4ltr, 8ltr and 24ltr Packs.

IMPORTANT NOTE

When pouring ROCKBOND (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. Avoid contact with food stuffs and utensils. Wear protective equipment (goggles, safety glasses, gloves, respirators, protective clothing etc) appropriate for the job at hand. Avoid contact with resins, hardeners, mixed epoxy and sanding dust from partially cured epoxy. Barrier creams provide added protection. If resin, hardener or mixed epoxy comes into contact with skin, remove it as soon as possible using lanolin based water cleaner and not solvents. Avoid breathing concentrated vapours and sanding dust. Rockbond epoxies have low VOC's but vapours can build up in unvented spaces. If the eyes or mouth are affected wash with clean water and obtain medical attention. Do not dispose of these materials as liquids but make sure they have been mixed and cured to a solid inert state.

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 Hour

YIELD:

An 8ltr 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:

CONTACT DETAILS

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