

# ROCKBOND (290-190) EPOXY TIE COAT

## High strength epoxy tie coat for concrete

### DESCRIPTION

ROCKBOND (290-190) EPOXY TIE COAT (RB 8.03) is a three component – resin-hardener-filler system, designed for the bonding of freshly mixed concrete, floor screeds or mortar to an existing concrete substrate or other materials. The filler content is a colloidal silica powder which is added and mixed in after the ADR 290 resin and ADH 190 hardener have been mixed together.

### SPECIAL PROPERTIES

- Develops high early strength greater than the tensile and flexural strengths of concrete.
- Strong bonding of concrete or mortar to most construction substrates including timber, steel, brick and fibre cement sheeting.
- Can be used on dry or damp substrates and gives excellent adhesion to both.
- Resistant to chemical attack from dilute acids and alkalis, sewage and salt water.
- Easy application.

### USES

ROCKBOND (290-190) EPOXY TIE COAT (RB 8.03) is effective in many applications, the following are some uses for which it is particularly appropriate.

- For bonding of new cementitious floor screeds to existing concrete floors.
- At construction joints to bond new concrete to existing.
- For bonding of plasters and renders to existing substrates.
- For use by tilers in bonding bedding mortar to substrates.

### SURFACE PREPARATION

Thoroughly clean all surfaces ensuring they are free of dirt, oil, grease, dust etc. To ensure all cement laitance is removed, scabbling or sandblasting is recommended. If the substrate is a relatively new concrete it should be treated with a 10% solution of hydrochloric acid. If substrate is steel, remove all rust, paint or oil etc by sandblasting.

### MIXING INSTRUCTIONS

Add entire contents of Component B (ADH 190) to Component A (ADR 290) and mix together with a mixer attached to slow speed electric drill until fully blended, then slowly add Component C (colloidal silica) while mixing. The mixing ratio by volume of components A:B:C = 3:1:1.

### APPLICATION PROCEDURE

Apply ROCKBOND (290-190) EPOXY TIE COAT (RB 8.03) to the prepared surface of the substrate in a thin uniform layer using a notched trowel, brush or roller, and work well into the surface. Cementitious Floor Screed, fresh concrete or mortar must be applied while the ROCKBOND (290-190) EPOXY TIE COAT (RB 8.03) is still tacky which will be only within about half its pot life. If any areas of the surface lose their tackiness there will be no bonding and another coat must be applied.

### CLEANING

Tools and equipment should be cleaned immediately with “MEK” solvent or “Esol” blended solvent.

### PACKAGING AND SIZE

ROCKBOND (290-190) EPOXY TIE COAT (RB 8.03) is available in 2.5ltr, 5ltr and 15ltr Packs.

## HEALTH AND SAFETY

Refer to the Material Safety Data Sheets (MSDS) for detailed product safety information. Wear protective equipment (goggles, safety glasses, gloves, respirators, protective clothing etc) appropriate for the job at hand.

Avoid contact with resin, hardeners, mixed epoxy and sanding dust from partially cured epoxy. Barrier creams provide added protection. If resin, hardener or mixed epoxy is got on skin, remove it as soon as possible using a 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. Although epoxy quickly cures to a sandable state it may take over two weeks at room temperature or elevated temperature to cure completely. If the eyes or mouth are affected wash with clean water and obtain medical attention.

Only dispose of these materials once they have been mixed and cured to a solid inert state.

## TECHNICAL DATA

Typical Physical Properties of ADR 290 Resin:

SPECIFIC GRAVITY	1.11
VISCOSITY AT 22°C	400cps

Typical Physical Properties of ADH 190 Hardener:

SPECIFIC GRAVITY	0.97
VISCOSITY AT 22°C	400cps

Curing Characteristics of ADH 190 with ADR 290:

MIX RATIO	33 to 100 (by volume)
POTLIFE (20°C, 200 GMS)	1 Hour
GEL-TIME IN THIN FILM AT 20°C	7 Hours
HDT AFTER 4 DAYS AT 20°C	67C
HDT ULTIMATE AFTER 4 HRS AT 100°C	78C

**YIELD:** A 5ltr Pack when mixed yields 4ltrs of spreadable Epoxy Tie Coat which will treat 8m<sup>2</sup> at a thickness of 0.5mm.

## TECHNICAL INFORMATION

Should you have any queries, or require further information, please contact our Technical Sales Team:

## CONTACT DETAILS

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