Data Sheet
EPO-REBOND
Epoxy Resin Adhesive for Rebonding Toppings

Adomast
Building Chemicals Limited

Description
EPO-REBOND is a two pack extremely low viscosity resin system especially formulated for gravity feeding into the cavity formed between a debonded topping and the base slab.

Typical applications of EPO-REBOND include:
- Rebonding existing debonded floor toppings to concrete base.

When repaired using EPO-REBOND:
- Bond between topping and base is restored

In its fluid state EPO-REBOND has:
- Long pot life to assist penetration and provide long usable time for working
- Extremely low viscosity to enable it to penetrate and to wet out surfaces thoroughly.

In its cured state EPO-REBOND has:
- Extremely high mechanical strength
- excellent bond to damp as well as dry concrete

Typical strengths after full cure:

Compressive: 82 Mpa	**Tensile:** 29 MPa	**Flexural:** 42 MPa
Bond strength to concrete:	**Tensile:** 2.9 Mpa (Concrete Failure)	**Shear:** 9.1 MPa (Concrete Failure)

USE
Gravity Feeding
This method is used for rebonding existing floor toppings which have lifted from their base.
Preparation
Drill 12 mm holes through debonded areas of topping until drill bit just enter the under slab. This is usually noted by a sudden drop of the drill. Debonded areas located by tapping for hollow sound. Holes should be at 0.5 to 1 m centres. The closer centres will facilitate flow between interface of topping and base. However small the area, never drill less than two holes as one hole is required for emission of trapped air. Do not permit dust and debris from drilling to enter holes. It is advisable to vacuum out holes.
Mixing
Drain the entire contents of base and hardener packs into a clean plastic jug or similar suitable mixing vessel and mix thoroughly to obtain a uniform blend. At low temperatures, to facilitate flow, viscosity of mix may be reduced by storing packs at room temperature prior to use.
Application
Insert plastic funnels into holes along one side of the area to be filled. When it is evident that the fluid is no longer sinking advance the funnels to the next line of holes across the area and repeat. Progress this way across the area until the far side is reached. .Fill remaining depressions with a mortar (made up of dry sand mixed with the fluid and catalyst) and trowelled into place. Do not apply in temperatures below 5^0 C.
Yield
2 Kg pack of **EPO-REBOND** will yield approximately 2 litre. In practice the volume of material required to fill a void is a minimum of twice the nominal volume and often more.
Pot Life
This is influenced by temperature and volume of mixed material. In practice under normal conditions a pot

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life of approximately 2 hours can be expected.

Cure Time

Full cure is achieved after approximately 7 days at 20^0 C. Lower temperatures will prolong cure time but rebonded surfaces will generally take light foot traffic the following day, preferably, keep heavy traffic off for at least 4 days.

Cleaning of Equipment

Equipment should be washed thoroughly in **RESOKLENS** immediately after use and before material begins to set.

Storage

Keep all containers sealed, store at room temperature and away from direct heat. Under normal temperate and dry conditions a storage life of one year can be expected.

Health & Safety

EPO-REBOND should be handled carefully and skin contact, exposure to high vapour concentrations and ingestion avoided. Wearing of overalls, gloves and protective eyewear should be considered together with the application of a suitable barrier cream to hands where necessary.

Reference should be made to the separate **EPO-REBOND** and **RESOKLENS** Health and Safety literature.

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