EPOXYBINDER R603

High Strength Epoxy Repairing Binder

高強度環氧樹脂修補漿

1.0 Description

EpoxyBinder R603 is two components non-solvent based, high strength epoxy resin; it offers matt finish with minimal odour for application on surface substrate of concrete, wood, render, screed, metal and steel etc. It is based on a combination of epoxy resin and aggregates to form a high strength epoxy repairing mortar. EpoxyBond R603 is thiooxotropix natual which is suitable for both honizontal and vertical sureface application.

2.0 Technical Data

Material	Part A	Resin : Epoxy resin
	Part B	Hardener : Polyamine resin
Volume Solid		> 95%
Specific Gravity	Part A:	1.3
	Part B:	0.98 – 1.02
Curing time	Pot Life:	15-40mins
	Initial Set:	2 hrs
	Foot Traffic:	24 hrs
	Public Traffic:	72 hrs
Compressive Strength (7th day)		$85N/mm^2$
Flexural Strength (7th day)		$16N/mm^2$
Tensile Strength (7th day)		$20N/mm^2$
Bonding Strength		$3 – 43\ N/mm^2$ (For cement screeding /concrete)
		$10 – 15\ N/mm^2$ (For Steel)
Minimum Thickness		3mm
Standard Thickness		3 - 10 mm
Maximum Thickness for each layer of application		50 mm
Interval time for each layer of application		8 hrs

3. Advantages

- Good Hardwearing and durability
- Easy to mix and apply
- Hygienic and easy to clean
- No shrinkage
- Solvent free – low odour formulation
- Excellent chemical resistant
- Abrasion and impact resistant

4.0 Application

4.1 Substrate Condition

Substrate should be structurally sound, dry and not suffer from rising damps.

Suitable damp-proof membrane should be installed to prevent this.

Substrate should have a relative humidity of not more than 75% at the time of installation and a moisture content of not more than 7% when measured on the Protimeter.

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4.2 Surface Preparation

Concrete Surface

New concrete surfaces must be cured for at least 21 days. Old concrete surfaces must be checked for stains, oil contaminants.

Metal Surface

The surface must be thoroughly degreased and cleaned of stains, oil, grease, paint, etc. It should be grit-blasted to SA2 1/2 (BS 4232 second quality) immediately prior to application.

In cases where grit-blasting are not possible (usually in small difficult areas) power brushing and grinding techniques

Steel Surface

Prepare surfaces by removing old coatings, rust products, grease, oil etc. by suitable mechanical equipment to a bright metal finish. Apply suitable anti-rusting primer on steel surface.

5.0 Typical Application

Pre-stir the component A and B. The whole of component A (Resin) should be mixed with the whole of component B (Hardener) by a slow speed electric stirrer (300-600rpm). Pour the entire contents of the hardener and base component into a mixing container and mix thoroughly till it becomes homogeneous.

While continuing mixing, add the *filler gradually until they are completely coated with epoxy liquid.

Pour the mixed material onto the primed surface and spread with a steel trowel to achieve a minimum thickness. The quantity of material should be pre-calculated to ensure that the required thickness is achieved.

* Filler means quartz sand, Aluminum Oxide or Silicone Cartridge grit, ratio (by Volume/Weight) of Filler to R603 is generally1 (Epoxy) : 1.5 (Filler).

6.0 Packaging

EpoxyBinder R603 is available in 20kg/set (A: 5kg + B: 1kg +Quartz Sand: 14kg)

7.0 Coverage:

1.3M2 per set including filler (10mm thickness)

8.0 Shelf Life:

Up to 12 months in unopened containers stored in a cool dry elevated place.

9.0 Health and Safety

In case of eye splashes or excessive skin contact, thoroughly flush with water. If any ill effects should occur seek medical attention promptly.