

# EPOMAST THIXOBOND

## Epoxy Resin Based Adhesive Paste

### Description

**EPOMAST THIXOBOND** is a general purpose 2 pack gap filling, adhesive paste for bonding damp or dry substrates.

**EPOMAST THIXOBOND** has been developed to produce high strength structural bond with virtually nil shrinkage. It bonds tenaciously to most sound building surfaces, is waterproof and resistant to a wide range of aggressive chemicals.

### Typical Applications

- Bonding all types of construction materials
- Bridge bearing pads
- Surface levelling
- Crack and surface sealing
- Bonding brick slips
- Bonding old to new concrete.
- Blowhole and pore filling

### Yield

Approximately 550cc/kg. 1.2Kg pack yields 660cc, 6Kg pack yields 3.3 litres

### Typical Strength Development after full cure

<b>Compressive</b>	75 N/mm <sup>2</sup>	<b>Tensile</b>	19 N/mm <sup>2</sup>	<b>Flexural</b>	40 N/mm <sup>2</sup>
--------------------	----------------------	----------------	----------------------	-----------------	----------------------

### Colour

Grey.

### Working Times

1 hour @ 15°C, 3 hours @ 5°C, 45 mins @ 20°C

### Bond

Typically brick or concrete fails. 12-14N/mm<sup>2</sup> to steel

### Layer Thickness

Minimum 1.0mm, maximum 50mm

### Instructions for use

#### Surface Preparation

Surfaces should be sound, clean, free from laitance, dust, oils or other deposits and surface dry.

**Concrete:** surfaces should have the aggregate exposed. **Steel:** remove all old coatings, grease, oils, etc. Mechanically clean to bright finish and apply **EPOMAST THIXOBOND** within 4 hours.

#### Priming

Priming is not normally required but for exceptionally porous surfaces a coat of **EPOTAC** may be applied to one or both surfaces and **EPOMAST THIXOBOND** applied to the still tacky surface.

#### Mixing

**EPOMAST THIXOBOND** is packed as a resin part and a hardener part both of which are blended with specially graded fillers to give a smooth paste. Using a mechanical mixer, the entire contents of the resin and hardener containers should be mixed together. Provided the relative proportions of the resin and hardener parts are maintained (3:1 w/w) part of the packs may be mixed.

## Resin-Based Construction Materials

### Application

Primed areas where the **EPOTAC** has set or soaked in should be re-primed. On vertical surfaces and soffits the **EPOTAC** should be allowed to become tacky before applying the **EPOMAST THIXOBOND**. Immediately after mixing the **EPOMAST THIXOBOND** should be trowel applied, spreading to produce a thin even coverage, pressing firmly onto the surface to achieve maximum density. Immediately press materials together until some **EPOMAST THIXOBOND** is squeezed out of the joint, no additional pressure is required but the joint should be held in position until the **EPOMAST THIXOBOND** is hard. Smooth off joint edges before **EPOMAST THIXOBOND** has set, a trowel wiped over with **RESOKLENS** will produce a smooth finish with no dragging. Do not apply in temperatures below 5°C.

### Pot Life

This is influenced by temperature, volume of mixed material and type of container. Lower temperatures, smaller volumes and wider containers giving a shallower bulk of material will extend pot life. In practice under normal conditions a pot life approaching 1 hour can be expected.

### Cure Time

Full cure is achieved after approximately 5 - 7 days at 20°C. Lower temperatures will prolong cure time. Light loading can be applied after 1 day for full loading full cure should be achieved.

### Cleaning of Equipment

Use **RESOKLENS** for cleaning equipment immediately after use and before **EPOMAST THIXOBOND** has set firmly.

### Storage

Keep containers sealed and at room temperature, away from direct heat. Under normal temperatures and dry conditions storage life is one year if the resin and hardener packs have not been opened.

### Health & Safety

**EPOMAST THIXOBOND** 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. Proper regard should be taken to the precautions necessary when storing and handling **EPOTAC** and **RESOKLENS**.

Reference should be made to the separate **EPOMAST THIXOBOND**, **EPOTAC** and **RESOKLENS** Health and Safety leaflets.