

EPOXY ADHESIVE

Introduction

EPOXY ADHESIVE is an outstanding solvent free 2 part epoxy resin specifically formulated to provide Precast Concrete Manufacturers and the construction and maintenance industries with an extremely effective bonding/bedding/repair material easy to mix and apply.

Function

EPOXY ADHESIVE will provide an excellent bond between most building materials including PRECAST UNITS — STEEL— CONCRETE—SLIP BRICKS—CERAMIC TILES— GLASS— HARDBOARD/WOOD—ASBESTOS CEMENT— G.R.P.—G.R.C.—POLYSTYRENE—ALUMINIUM— GALVANISED METAL.

EPOXY ADHESIVE can also used for:

- (1) Bonding pre-cast concrete segments.
- (2) Grouting starter rods in horizontal plane.
- (3) Bonding external steel plate reinforcement to concrete.
- (4) Fixing loose tiles and slip bricks.
- (5) Sealing pipe entries.
- (6) Bedding concrete units/tiles/kerbs/plant & machinery pads. Bridge Beams & Bearing Pads
- (7) Sealing gaps and cracks/bolt pockets
- (8) Repairing broken or cracked concrete, brickwork and worn steps.
- (9) Repairing metal guttering.
- (10) Bonding new concrete to old.
- (11) Fixing Cat Eyes and Road Reflectors/Markers.

Technical Data (Typical Values)

DENSITY 1.17 kg/litre

STRENGTH DATA

	24 hrs	48 hrs	7 days
Compressive strength N/mm ²	16.8	>63	>63
Tensile strength (A.S.T.M. C307) N/mm ²	4.9	9.8	18.9
Flexural strength (A.S.T.M. C580) N/mm ²	---	---	24.0
Shear strength (A.S.T.M. C580) N/mm ²	---	---	50.0
Shear adhesion to steel N/mm ²	---	---	6.5

Coverage/Usage rate:

Will depend on job in hand. Use as required. As a guide

EPOXY ADHESIVE 4-5 m²/kg.

SET NF 2kg./m² for 1 mm thick.

Colour Range:

Resin: Transparent Hardner: Tinted Red/Yellow (Coloured product can be made on request.)

Packaging:

EPOXY ADHESIVE is supplied in convenient sets as per your requirements. Each set consists of two separate containers marked Pack A and Pack B.

How to use:

PREPARATION OF SUBSTRATE:

Surfaces to be bonded must be clean, sound and free from dust, dirt, grease and oils etc. Steel plate must be grit blasted to remove oxides, scale, rust, etc. Galvanised metal surfaces should first be primed with a suitable Etch Primer. Apply the material without delay.

APPLICATION:

Equal weights of Pack A and B should be thoroughly mixed together until a uniform colour is obtained. Mechanical mixing is recommended for large quantities, preferably with an industrial hand drill and a paddle attachment driven at low R.P.M. **EPOXY ADHESIVE** is then ready to use. The two materials to be bonded must be held in place until initial cure has taken place. Ensure that cross contamination of the A and B packs does not occur via the tools used.

SET NF :

Where a non slump type of Epoxy Mortar is required, it is recommended to add fine silica/Quartz Aggregates in **EPOXY ADHESIVE** in ratio of **EPOXY ADHESIVE** 1 part to Aggregates 4 to 6 parts according to site requirements. SET NF grade can be formulated with the above method and it is ideal for a variety of bedding, gap filling, repairing horizontal and vertical concrete surfaces and honey combed concrete structures.

POT LIFE AND CURE TIME:

Pot life is approximately 30 minutes at 25°C (200gm. mix.) Initial cure takes place between 1 to 4 hours depending on bulk. Full cure in 7 days.

CLEANING OF TOOLS:

Tools etc. should be cleaned immediately after use and before the ADHESIVE has set with CLEANING SOLVENT.

Health & Safety Precautions:

Contains liquid epoxy resin and a polyamine compound. Irritating to eyes, skin and respiratory system. Do not breathe fumes. Wear suitable gloves and eye/face protection. Wash hands thoroughly with soap and water after use. Harmful if taken internally.

Covering capacity figures given in this leaflet are approximate only. They are quoted solely for guidance and are therefore given entirely without responsibility, because conditions of surface and workmanship vary with each particular job.



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