CLASSIC EPOXY MORTAR

High Strength Epoxy Mortar

PRODUCT

Classic Epoxy Mortar is a faster curing / low temperature curing grade. A balanced blend of epoxy resin and hardener, with specially graded fine siliceous fillers. To make good defective concrete, particularly for vertical and soffit work, for bearing pads, slip bricks, kerbstones, expansion joint nosings etc.

INDROTUCTION

Classic Epoxy Mortar is a high strength composition comprising a balanced blend of Epoxy resin with specially graded fine silica fillers. It is especially formulated to give ease of compaction.

PROPERTIES

Colour	Light Brown
Pot life at 30°C	45 mins
Hard dry time at 30°C	1 day
Full cure at 30°C	3 days
Compressive strength	(N/mm^2)
At 30°C, 1 day	23
At 30°C, 7 day	70
At 30°C, 3 day	40.66
At 10°C, 7 day	55
Tensile strength (N/mm^2)	15
Flexural Strength (N/mm^2)	27
Temperature limitations:	
During application	10°C to 35°C
In service	-20°C to + 40°C

Mixing

Base 1% wt, Hardener 0.5%, Aggregate 8%
Aggregate size: Mesh size – 100 silica

HOW TO USE

1. Preparation

Surfaces should be prepared in accordance with the instructions given in the General Information Sheet on the use of Epoxy resins.

2. Priming

The use of a separate primer is recommended in order to offset the suction and finishing when trowelled, particularly for vertical and soffit work so that an impermeable layer is obtained. The mortar will cure under damp conditions and has excellent chemical resistance of the substrate which might otherwise impair the bond and hinder compaction and finishing. In addition the primer coat gives enhanced protection to exposed reinforcement. The prepared concrete surface should be primed by the application of ***Classic Epoxybond*** which should be brushed well in so that it thoroughly wets the surface. It is essential that there should be a continuous film of resin over the entire surface, particularly in crevices. A nominal 500 microns of ***Classic Epoxybond*** should be applied to exposed reinforcement. NOTE: Alternatively re-bars may be coated with ***Classic Zinc Rich Epoxy Primer***.

3. Mixing

Classic Epoxy Mortar Epoxy Mortar comprises three components: the resin BASE, the HARDENER, and the AGGREGATE which are supplied pre-weighed in the correct proportions. The ease of mixing in cold weather is aided by storing tins in a warm atmosphere. It is essential that the AGGREGATE is kept dry and free from frost. When required for application the HARDENER should first be poured into the can containing the BASE and drained well. The two components should be thoroughly mixed, preferably with a mechanical stirrer, e.g. an electric drill with stirrer attachment, until a uniform clear liquid is obtained. The liquid and the AGGREGATE are thoroughly uniform consistency and colour obtained. The small pack can conveniently be hand mixed using a bull-nosed trowel on a clean board but the larger packs should be blended in a low speed mortar mixer such as the Creteangle or Casco machines.

4. Application

Before the primer has hardened, i.e., within 1 hour of application, the ***Classic Epoxy Mortar*** should be applied, by tamping and trowelling, in successive layers not exceeding 15mm in thickness in order to allow a full compaction. Finally the mortar should be shaped to the desired profile and trowelled to a smooth finish.

The production of a fine close surface on the mortar will be aided by wiping the trowel sparingly with a cloth dampened with EPOXY SOLVENT.

5. Yield

The volume of mortar produced from each size of pack is approximately as follows :

9.5 kg pack gives 4.80 litres.

6. Curing

The product should be cured adequately before putting into service. At 30°C ***Classic Epoxy Mortar*** may be opened to light foot traffic following 1 day cure and vehicular traffic following 4 days cure. In applications where chemical resistance is required, then a full 7 days cure should be allowed. At lower temperatures longer curing periods should be allowed. Water curing not required.

7. Cleaning

Tools can be cleaned, providing the adhering mortar has not already set, using EPOXY SOLVENT.

8. Handling Precautions

Cleanliness in handling the resins is essential in order to prevent skin irritation. For detailed information please refer to Epoxy resins “Safe Handling Guide”.

PACK

9.5 kg pack

WHERE TO USE

Repairs to spalled columns, soffits, gutters, lintels, etc. Repair of damaged concrete floors, spalled concrete roads and runways. Making good damaged concrete kerbs, pipes and precast units. As bedding mortar for tiles or uneven floors, and under corrosive conditions, for bridge bearing pads, for heavy duty nosings on expansion joints, for bedding / bonding brick slips.

STORAGE

Atleast on year when stored in the manufacturer’s undamaged, original, sealed containers in dry conditions, out of direct sunlight.