



CLASSIC EPO MORTAR 301

High Strength Epoxy Mortar

Product:

Classic Epo Mortar 301 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 nosing etc.

Introduction:

Classic Epo Mortar 301 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 days-----	70
At 30°C, 3 days-----	40.666
At 10°C, 7 days-----	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:

Preparation:

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

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 substrate which 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**.

Mixing:

Classic Epo Mortar 301 comprises three components: the resin BASE, the HARDENER, and the AGGREGATE which are supplied pre-weighted 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 contain 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.

Application:

Before the primer has hardened, i.e., within 1 hour of application, the **Classic Epo Mortar 301** 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.

Yield:

The volume of mortar produced from each size of pack is approximately as follows. 9.5 Kg pack gives 4.80 litres.

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Curing:

The product should be cured adequately before putting into service. At 30°C **Classic Epo Mortar 301** 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.

Cleaning:

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

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

Available in 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 bricks slips.

Storage:

At least, one year when stored in the manufacturer's undamaged original, sealed containers in dry conditions, out of direct sunlight.

Variety of Products:

Following are the other similar products from Primadonn Buildtech Pvt. Ltd.

- Classic Coat-RB
- Classic Crackmate
- Classic Cure-C
- Classic Epoxy Patch-302
- Classic Epoxy Primer-273
- Classic Epoxybond-208
- Classic Epoxyseal-204
- Classic ETP-3
- Classic MA
- Classic Micromate
- Classic Primecoat
- Classic Repmate
- Classic Rust Shield
- Classic Strongcoat-202AR
- Classic TA
- Classic TP
- Classic TT
- Classic Wall Putty

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