



Buildcrete-EP (2K Epoxy Mortar for Repairing of Concrete & Stone Surface)

Buildcrete-EP is a high performance two component solvent free epoxy mortar for surface profiling & repairing concrete cracks etc on vertical & horizontal surfaces where a high degree of compressive strength, chemical resistance and excellent mechanical properties are required such as garages, service facilities, storage facilities, workshops, hospitals, car parking decks, swimming pools, and power stations, etc. It posses good handling characteristic, specially designed for applications to infill surface imperfections up to 5 mm.

Uses: Buildcrete-EP is designed for application to fill imperfections in concrete, masonry, and stone surfaces. It is suitable for application in the following situations:

- general re-profiling over large areas of concrete & stone surface with high abrasion resistance
- Re-profiling in association with other Bondcrete range of mortars with excellent adhesion to most surfaces
- Skim coat over concrete to receive protective coatings on interior and exterior surfaces
- Filling blow holes, cracks, voids, honey combs, etc prior to protective coating

Advantages: Cost effective, time saving, no primer or curing agent required, High performance-excellent bond to many substrate, easy handling & application, and requires less time to produce excellent surface for protective coatings.

Directions for use:

Surface Preparation: The surface should be free from laitance, dust, oil and grease etc. Concrete surface must be structurally sound clean, dry (moisture <5%), & free of loose or deteriorated concrete particles that could impair adhesion. Smooth substrates must be abraded to ensure proper bonding. All prepared areas should be thoroughly boomed to make that the surface dust free.

Mixing: Base and hardener should be mixed together in a mix ratio of 1:1 by volume in a suitable container until uniform colour is obtained. This should be mixed vigorously until fully homogeneous. Part mixing can also be done with strictly maintaining the ratio 1:1 or else the mortar will not dry.

Application: Apply the mixed Buildcrete-EP to fill the blow holes, cracks, honeycombs, or any other surface imperfections with a spatula, scraper or palette knife on the prepared surface with minimum working time and be allowed to partly set before finally troweling to a smooth finish. If a very smooth finish is required, sand down the dried Buildcrete-EP to achieve a flush overall surface.

Working time of Buildcrete-EP is 30 minutes at 25°C.

Curing:

Good curing is essential for resin based materials to ensure specified performance. Foot traffic can be allowed after approximately 24 hours at 25°C. Complete cure is achieved after 72 hours at 25°C.

Coverage:

Coverage rate is dependent on the width and depth of the cracks to be patched or overall profile of the surface

Typical Properties:

Appearance	: Thick Grey Paste
Fresh Density	: 1800 kg/m ³
Initial Setting time	: 120 minute at 25 ⁰ c
Final Set	: 72 hours
Compressive Strength	: 78N/mm ² after 72 hours : (BS 6319 Part 2)
Flexural Strength	: 20N/mm ² after 72 hours : (BS 6319 Part 3)
Tensile Strength	: 78N/mm ² after 72 hours : (BS 6319 Part 7)
Service Temperature	: -20 ⁰ c to 80 ⁰ c
Application Temperature	: +20 ⁰ c

Pack Size: 10 Kg packs in two parts

Code Practice:

Concrete repairing should be carried out in accordance with up-to-date relevant British Standard or BS Codes of Practice, details of which can be obtained from British Standard Institute, British Standard House, 2 Park Street, London W.1.

Shelf Life & Storage:

12 months if stored properly in original unopened packing in a cool, dry, and ventilated conditions away from direct sunlight.



BUILD PLUS
CONSTRUCTION CHEMICALS

Technical support:

GMC offers comprehensive technical support service & specification assistance in locations to our channel partners, end users, and contractors.

Quality & Care:

All the products manufactured and originated from Gulf Minerals and Chemicals, UAE facility are independently tested and certified under a GMC Management System to conform to the requirements of the quality, environmental, health & safety Standards.

Handling:

Buildcrete-EP is a non- flammable and non-toxic in nature. Avoid contact with eyes and skin as it may cause irritation due to its alkaline nature. Splashes of Buildcrete-EP should be washed off immediately with clean water. Wear necessary gloves and dust mask.

Cleaning:

Tools and equipment should be cleaned by using any organic solvent. Uncured material can be wiped with a dry cloth following grouting.

Health & Safety Precautions:

Buildcrete-EP contains cement powders which, when mixed or become damp, release alkalis which can be harmful to the skin. During use, avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection & respiratory protective equipment. The use of barrier creams provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. The product complies with environmental and occupational health & safety standards ISO 14001 and OHSAS 18001.

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Manufactured in the U.A.E by:
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