



Buildcrete-BF (High Strength, Fast Setting, Concrete Re-profiling Mortar)

Buildcrete-BF is a single component polymer modified concrete repair mortar, supplied as a ready to use blend of dry powders & polymers, which requires only the addition of water to produce a highly consistent cementitious mortar, with good handling characteristic, specially designed for vertical & overhead applications to infill surface imperfections up to 6 mm.

Usage: Buildcrete-BF is designed for application to fill imperfections in concrete and masonry surfaces. It is suitable for application in the following situations:

- General re-profiling over large areas
- Re-profiling in association with other Bondcrete range of mortars
- Skim coat over concrete to receive protective coatings
- 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 substrate, User friendly - requires addition of water only, Suitable to receive 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 & 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 soaked with clean water prior to the application of Buildcrete-BF.

Mixing: Care should be taken to ensure that Buildcrete-BF is thoroughly mixed. Mixing should be carried out in a suitably sized mixing vessel, using a slow speed (400/500 rpm), heavy duty drill and a mortar mixing paddle. Pour 4-6 litres of water (depending on workability required) into the mixer and, with the machine in operation, add one full 20 kg bag of powder, and then mix for 3 to 5 minutes until fully homogeneous. If mixing small quantities by hand, Buildcrete-BF should be volume batched. Add 3 volumes of the Buildcrete-BF (loose-filled to excess and struck off level with the top of the measuring container) to one volume of potable water. This should be mixed vigorously until fully homogeneous.

Application: Apply the mixed Buildcrete-BF to the blow holes by steel trowel. It should be applied with minimum working time and be allowed to partly set before finally troweling to a smooth finish. If a very smooth finish is required, a small amount of water may be flicked on to the surface of the Buildcrete-BF with paint brush prior to final troweling.

Working time of Buildcrete-BF is 20 minutes at 25°C, after 5 minutes standing time.

Curing:

Curing is not generally required. However, under extreme conditions – high temperatures and drying winds – use Bondmix-ACR as a curing agent or cover the surface with polythene sheet, tape down at the edges of polythene sheets after application & Keep the area moist for a minimum of 48 hours.

Standards:

Buildcrete-BF meets the volume change & exceeds the compressive strength of CRD-621 and ASTM C-1107 Grade C.

Coverage:

20 kg bag will yield approximately 12.73 litres of paste and the coverage depends upon the size of voids, holes, & dents to be filled

Typical Properties:

Appearance	: Grey Powder
Initial Setting time	: 60 minute at 25 ⁰ c
Final Set	: 2 hrs 45 minutes
Compressive Strength	: 10.1 N/nm ² at 3days : (ASTM C 905)
Fresh Wet Density	: 1639 kg/m ³
Elasticity in compression	: 6,200,000 PSI

Pack Size: 20 kg plastic bags

Composition:

Graded silica sand, Portland cement, flow improvement compounds, and shrinkage compensating polymer additives and admixtures



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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.

Precautions:

- Do not add any admixture or fluidifiers
- Proper curing is required
- Store materials in a dry place
- Do not use the material as a topping
- Do not use material at temperatures that may cause premature freezing
- Rate of strength gain is significantly affected at temperature extremes

Technical support:

BondChem 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 BondChem Management System to conform to the requirements of the quality, environmental, health & safety Standards.

Handling:

Buildcrete-BF 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-BF should be washed off immediately with clean water. Wear necessary gloves and dust mask.

Health & Safety Precautions:

Buildcrete-BF 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.

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