



### **Buildcrete-FC** (Polymer modified Concrete Surface Fairing Coat)

*Buildcrete-FC is a single component, polymer modified, concrete repair & fairing coat, supplied as a ready to use blend of powders, and 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 in thin layer to concrete surfaces from feather edge up to 5mm thickness in one application.*

**Uses:** Buildcrete-FC is a professional choice for concrete repairing and to produce fair face finish for interior and exterior concrete surfaces, vertical or horizontal or overhead concrete and masonry surfaces. Specific uses include resurfacing and levelling uneven surfaces, filling small holes, honeycombs, spalled areas, cracks, and mortar joints.

**Advantages:** Cost effective, time saving-easily mixed by simply addition of water, no primer or curing agent required, High performance - excellent bond to substrate, smooth finish, ready to receive paints and protective coatings, weather resistant, chloride free, excellent thin layer adhesion.

#### **Directions for use:**

**Surface Preparation:** The surface should be free from laitance, dust, oil and grease etc and must be structurally sound clean & free of loose or deteriorated concrete particles that could impair adhesion. All prepared areas should be thoroughly soaked with clean water prior to the application of Buildcrete-FC.

**Mixing:** A 20kg bag of Buildcrete-FC will require approximately 5 to 6 litre of clean and cool water. Small quantities can be mixed by hand but larger quantities should be mixed with a slow speed drill and paddle, the water should be placed in the container first and the powder added with stirring. Stirring should continue for 2-5 minutes to obtain cohesive paste. For application by trowel slightly less water should be used. This should be mixed vigorously until fully homogeneous.

**Application:** Thoroughly dampen areas with clean water immediately before patching. Apply sufficient pressure to fill all holes and voids, and then trowel to a smooth finish. Buildcrete-FC should be applied with a minimum of working time and should be allowed to partly set before troweling to a final smooth finish. Depending on the smoothness of surface texture requirements, a small amount of water may be splashed on to a partially set surface of Buildcrete-FC and then towelled to a smooth finish.

#### **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.

#### **Workability:**

Working time of Buildcrete-FC is 45 minutes at 25°C, after 5 minutes standing time.

#### **Coverage:**

20 kg bag will yield approximately 12.75 litres of paste & will cover approximately 12.76 m<sup>2</sup> at 1mm thickness.

#### **Typical Properties:**

Appearance	: Fine Grey Powder
Fresh Wet Density	: 1658 kg/m <sup>3</sup>
Compressive Strength (7 days)	: 12.9 N/mm <sup>2</sup>
Flexural Strength (7 days)	: 4.18 N/mm <sup>2</sup>
Initial Setting time (ASTM C 905:96)	: 285 minute at 25 <sup>0</sup> c
Final Setting time (ASTM C 905:96)	: 360 minutes

#### **Composition:**

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

**Pack Size:** 20 kg plastic sacks

#### **Shelf Life & Storage:**

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

#### **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.

#### **Technical support:**

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



**BUILD PLUS**  
CONSTRUCTION CHEMICALS

### 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.

### 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

### Handling:

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

### Health & Safety Precautions:

**Buildcrete-FC** 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 and respiratory protective equipment. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water.

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