



## **Buildproof-CRF** (2K Flexible Cementitious Waterproofing for Rooftop & Exposed Areas)

**Buildproof-CRF** is a two component cementitious waterproofing coating for concrete & masonry surfaces. It is breathable, light bodied, waterproofing coating that penetrates into the pores and voids and becomes an integral part of the surface to which it is applied. It can stand with structural movements, UV Resistant, and standing water up to 1.5 bars; most suitable for waterproofing of Rooftop Areas of SPF system.

**Usage:** Buildproof-CRF is best used to waterproof concrete & masonry surface, and chloride, UV resistant, and carbon dioxide resistant coating to cement bound structures such as rooftop of the building, balconies, masonry surfaces, stones, marbles, granite, etc.

### **Advantages:**

- effectively seals concrete and cement-bound substrates
- High resistance to carbon dioxide diffusion and anti-carbonation protection
- Highly Flexible, allows hairline cracks in the substrate to be bridged over
- Superior adhesion, bonds to porous and non porous substrates
- Tough surface, allows pedestrian traffic after 24 hours of application
- Can be applied on 24 hour old damp concrete
- Fluid consistency allows easy application by roller or can be sprayed
- Resistant to chloride, sulphate, salts, grease, oils, alkalis, etc.
- Water vapour permeability allows substrate to breathe

### **Directions for use:**

**Surface Preparation:** The Surface should be clean, dry and free from oil, grease, curing compound, any loose materials and foreign particles. The substrate should be firm, in case of gaps and cracks fill with suitable material and ensure that the surface is even.

**Mixing:** Transfer the liquid component to a mixing container. Add the powder component to the liquid and mix using a slow-speed electric drill (300 RPM) fitted with a mixing paddle until a uniform homogeneous creamy mix is obtained. Add 100gm of 'Additive A' and mix for a further 20 to 30 seconds. After mixing, let it stand for 5 minutes. Two to three coats are recommended. Previous coat should be allowed to dry (normally 30 minutes) prior to succeeding coats.

**Application:** Application process is similar to that of epoxy coating. Stir the mixed material & apply onto the prepared substrate by roller at a rate of 0.40 kg /m<sup>2</sup> per coat. Two to three coats are recommended. Previous coat should be allowed to dry (normally 30 minutes) prior to succeeding coats. Each kit of 20 kg will cover an area of up to 20 m<sup>2</sup> in two coats.

### **Curing:**

Curing is not generally required. However, under extreme conditions – high temperatures and drying winds – use BP Bondmix-AC as a curing agent or cover the surface with polythene sheeting, taped down at the edges of polythene sheets after application & Keep the area moist for a minimum of 3 hours.

### **Workability:**

Working time of Buildproof-CRF is 30 minutes at 25<sup>0</sup>C, after 2 minutes standing time.

### **Coverage:**

Each kit of 20 kg will cover an area of up to 20 m<sup>2</sup> in two coats with brush or rollers.

### **Typical Properties:**

CO <sub>2</sub> diffusion Resistance (0.55mm thick)	: 410 meter
Vapour diffusion Resistance (0.55mm thick)	: 2.9 meter
Equivalent Concrete Thickness	: 100 cm
Initial Surface Absorption (reduction)	: 98%
Fresh Wet Density	: 1530kg/m <sup>3</sup>
Chloride Ion Diffusion Coefficient	: 1.03 x 10 <sup>-7</sup>

### **Composition:**

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

**Appearance:** Generally Grey but can be supplied in custom colours

**Pack Size:** 20 kg (15 kg Powder +5 kg Liquid)

### **Code Practice:**

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



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### Shelf Life & Storage:

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

### Handling:

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

### Precautions:

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

### 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.

### Health & Safety Precautions:

**Buildproof-CRF** 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. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water.

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Manufactured in the U.A.E by:  
Gulf Minerals and Chemicals L.L.C  
P.O. Box: 22323, Sharjah, U.A.E  
[www.buildplus-gmc.com](http://www.buildplus-gmc.com)

Build Plus Construction Chemicals GmbH  
Koblenzer Strabe 33  
56321 Rhens, Germany  
[info@buildplus-gmc.com](mailto:info@buildplus-gmc.com)