

BONDCRETE BF **(POLYMER MODIFIED CEMENTITIOUS FILLER MORTAR)**

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BONDCRETE BF is supplied as a ready to use blend of dry powders and polymers, which requires only the addition of water to produce a highly consistent cementitious mortar, with good handling characteristics. **BONDCRETE BF** exhibits excellent thermal compatibility with concrete and is fully compatible with other **BONDCRETE** mortars.

USES

BONDCRETE BF is designed for application to imperfections in concrete and masonry surfaces. It is suitable for application in the range 0 to 6 mm, and can be used in the following situations:

- General re-profiling over large areas.
- Re-profiling, in association with other **BONDCRETE** mortars.
- Skim-coat over concrete to receive protective coatings.
- Filling blow holes prior to over coating.

ADVANTAGES

- Cost effective, time saving - no independent primer or curing agents required.
- High performance - excellent bond to substrate.
- User friendly - requires addition of water only.
- Suitable to receive protective coatings.

DESIGN CRITERIA

BONDCRETE BF is designed for vertical and overhead use to infill surface imperfections of concrete in the range 0 to 6 mm.

MIXING

Care should be taken to ensure that **BONDCRETE BF** is thoroughly mixed. In all cases the powder component should be introduced into water. 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, then mix for 3 to 5 minutes until fully homogeneous. Do not use more than 6 liters of water per 20 kg bag.

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If mixing small quantities by hand, **BONDCRETE BF** should be volume-batched. Add 3 volumes of the **BONDCRETE BF** powder (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.

INSTRUCTION FOR USE

Preparation

Clean the surface and remove any dust, unsound material, plaster, oil, paint, grease, corrosion deposits or algae. Roughen the surface to remove any laitance and expose the fine aggregate by light scabbing or sweep blasting. Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or the use of a proprietary degreaser. The effectiveness of decontamination should then be assessed by a pull-off test. The cleaned areas should be blown clean with oil-free compressed air before continuing. All prepared areas should be thoroughly soaked with clean water immediately prior to the application of **BONDCRETE BF**. Any residual surface water should be removed prior to commencement.

TYPICAL PROPERTIES

The following results were obtained at a water powder ratio of 0.25

| Property | Typical result | |
|--|--------------------------------|---------------|
| | @ 20°C | @ 35°C |
| Working life (Approx.) | 60 mins | 30 mins |
| Initial Setting time | 360 mins | 300 mins |
| Fresh wet density | 1639 kg/m ³ | |
| Compressive strength (ASTM C 905) | 3days - 10.1 N/mm ² | |

Note: Working life and setting time will vary dependent on ambient, substrate temperatures and wind speed.

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APPLICATION

Apply the mixed **BONDCRETE BF** to the blow holes by steel trowel. It should be applied with minimum working 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 **BONDCRETE BF** with paint brush prior to final troweling.

CURING

Curing is not generally required. However, under extreme conditions - high temperatures and drying winds – use **T - BOND A** as a curing agent or cover the surface with polythene sheeting, taped down at the edges.

T - BOND A does **not** require mechanical removal prior to over coating.

Cleaning

BONDCRETE BF should be removed from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically.

LIMITATIONS

- **BONDCRETE BF** should not be used when the temperature is below 5°C and falling.
- Do not proceed with the application when rainfall is imminent unless in a sheltered or protected situation.
- If any doubts arise concerning temperature or substrate conditions, consult the local **BondChem** office.

STORAGE

SHELF LIFE

All products have a shelf life of 12 months if kept in a dry store in the original, unopened bags or packs @ 25° C. If stored at high temperatures and/or high humidity conditions the shelf life may be considerably reduced to 4 to 6 months.

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PRECAUTIONS

HEALTH & SAFETY

BONDCRETE 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 and respiratory protective equipment. The use of barrier creams provide additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - **do not** induce vomiting. For further information, refer to the Product Material Safety Data Sheet.

Fire

BONDCRETE BF is a non-flammable product.

Whilst the information and / or specification given are to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents or distributors as the conditions of use and any labour involved are beyond our control.

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