

**1.0 Description:**

- C-BOND is a bonding agent formulated from modified synthetic resin used with cement & cement mortars.
- Increase bonding strength to smooth surfaces.
- Minimizes shrinkage, reduces permeability.
- Improves abrasion resistance, increases mechanical strength.
- Economic and easy to use.

**2.0 Uses:**

- Bonding agent for old and new concrete.
- Patching & making good edges for corners and renders.
- Bonding agent for renders to fair face concrete and cement mortars.
- As a bonding agent to gypsum that improves workability and setting time.
- Applying thin, workable, durable and free of cracks screeds that has high bond strength.

**3.0 Approval & Certification:**

Maybe available on request

**4.0 Colours:**

Milky white in color

**5.0 Product Data:**

Density	: 1.05 gm/cm <sup>3</sup>
Ph value	: 9
Solid Content	: 18%

**6.0 Mixing Ratio, and consumption per coat:**

**6.1 As bonding agent between old to new concrete:**

C-BOND 1	Water 1	Filling Material Cement as required slurry	Consumption of C-BOND 300 gm/m <sup>2</sup>
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Mix the diluted C-BOND with the cement (1:2) to get the required slurry that is brushed on old concrete just before casting the new concrete

**6.2 As bonding agent for spray mortars to fair face concrete:**

C-BOND 1	Water 2	Filling Material 1 Cement : 3 coarse sand by volume	Consumption of C-BOND 250 gm/m <sup>2</sup> for 2mm thickness
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Mix the diluted C-BOND with the prepared filling (1:5) and spray over fair face concrete.



6.3 As an additive to mortars to improve qualities:

C-BOND 1	Water 4	Filling Material 1 Cement : 5 sand by volume	Consumption of C-BOND 500 gm/m <sup>2</sup> for 2cm thickness
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Mix to the required consistency.

6.4 For screed up to 50 mm:

C-BOND 1	Water 4	Filling Material 1 Cement : 5 sand up to 4mm size by volume	Consumption of C-BOND 250 gm/m <sup>2</sup> /1cm thickness
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Mix to the required consistency.

Notes:

- Mix for a minimum of 3 minutes.
- If mixing C-BOND with a pre-packaged product the amount of total water in the mix should be reduced to compensate for the addition of C-BOND.
- Do not over mix mortars containing C-BOND.
- Do not add C-BOND to a mortar mix; always add it to the water prior to mixing.

7.0 Surface Preparation:

- Substrate can be Cement plaster, concrete, blocks, rendered surfaces, gypsum board etc.
- Concrete substrate having suitable strength (~300 kg/cm<sup>2</sup>).
- All separated layers in concrete should be removed.
- Any defects in the substrate like cracks, pin holes should be repaired.
- Smooth the surface by sanding.
- In case of Fair Face Concrete (Play wood or Steel Shattering), the realising agent must be water based to be able to remove with water before application.

8.0 Application Methods:

1. Mix C-BOND with the above-mentioned water ratio according to the required application.
2. Mix the needed filling materials (cement / coarse / sand) with the above-mentioned ratios according to the required application.
3. Add the diluted C-BOND to the premixed filling and mix well till you reach a homogenous slurry.
4. Apply using the suitable tool.
5. Clean tools with water directly after application.

Note:

*The temperature of substrate should not exceed 40°C during application & is recommended to damp the surface using water, especially in summer.*

9.0 Product weight:

Total Weight	: 1,5, 20, 100 kg
Container	: Sealed pre weighed plastic jenkins/barrels



10.0 Drying time:

Touch Dry	: 120 min	at 30°C
Hard Dry	: 240 min	at 30°C

*Note:*

*Drying time depends on air circulation, temperature, film thickness and number of coats, and will be affected correspondingly.*

11.0 Recoating:

- Recommended to recoat with the same base type of previously applied paint.
- In case of multi-coat application, drying times will be affected by the total thickness of previously applied coats.
- The surface should be dry and free from any contamination prior to application of the subsequent coat.

### 12.0 Disclaimer:

- The information in this document is given to the best of our knowledge, based on laboratory testing and practical experience. We cannot guarantee anything but the above-mentioned quality of the products themselves. Minor product variations may be implemented to comply with local requirements. We reserve the right to change the given data without further notice. Users should always consult us for specific guidance on the general suitability of this product for their needs and specific application practices.
- Samples of any approved delivered materials shall be retested after delivery.
- These products are for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to our technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to our responsible representative for approval before commencing the work.

### 13.0 Handling of Emulsion Products:

- Avoid contact with eyes and skin. Emergency showers and eyewash stations should be readily accessible.
- Adhere to work practice rules established by government regulations.
- Use personal protective equipment.
- When using, do not eat, drink, or smoke.

### 14.0 Compatibility:

- Primers applied prior to specified product shall always be acrylic based products.
- For Repairing and fixing defects, products shall always be cement based products
- Recoating shall be acrylic products.

### 15.0 First aid Measures:

- General advice: Seek medical advice. If breathing has stopped or is laboured, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
- Eye contact: Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.
- Skin contact: Immediately remove contaminated clothing, and any extraneous chemical, if possible, to do so without delay. Initiate and maintain gentle and continuous irrigation.
- Take off contaminated clothing and shoes immediately.
- Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
- Inhalation: Move to fresh air.

### 16.0 Storage:

- Store above ground and surrounded by dikes to contain spills or leaks.
- Do not store in humid or extra hot weathering conditions.
- Keep containers tightly closed away from heat & in dry, cool, and well-ventilated place.