



# BETONAC<sup>®</sup> BOND-110

## SBR BONDING AGENT FOR CEMENT MORTARS

### DESCRIPTION

BETONAC<sup>®</sup> BOND-110 is a dispersion of internally plasticized, high polymer resin in water. It is a ready-to-use, non-settling, milky white liquid with a viscosity only slightly greater than that of water. BETONAC<sup>®</sup> BOND-110 is a bonding agent for concrete. When used as directed, BETONAC<sup>®</sup> BOND-110 will form a bond between new to old, new to new, which is stronger than the concrete being bonded.

### USES

- BETONAC<sup>®</sup> BOND-110 is primarily intended for bonding new to old Portland cement mortars in exterior or interior applications.
- Because BETONAC<sup>®</sup> BOND-110 grout and mortar adhere to most substrates, it is used in a wide variety of applications. This includes bonding construction joints, prevention of cold joints in multiple pours, levelling of floors prior to BETONAC<sup>®</sup> BOND-110 secondary surfacing, skid-proofing, and finishing concrete block walls.
- BETONAC<sup>®</sup> BOND-110 grout is used to replace grinding of the concrete surface with a resulting waterproof, weatherproof, uniform, and attractive finish at substantially lower cost.

### ADVANTAGES

- Simply mix with cement, sand and water
- For interior & exterior use
- Adheres to most surfaces
- Ready to use as received

### APPLICATION

#### Surface Preparation

The surface to which BETONAC<sup>®</sup> BOND-110 grout or topping is applied must be clean and free of oil, grease, loose particles and similar substances. Remove loose and foreign material by scarifying or other mechanical means. All traces of acids must be removed completely. A properly prepared surface will be clean and free of other materials or stains, readily and uniformly dampened with water.



## Mixing and Placing

### A) Bonding Grout

For all applications as a bonding agent, BETONAC® BOND-110 is mixed to the following proportions (by weight): 1-part BETONAC® BOND-110, 1 part water, 5 parts Portland cement, 15 parts fine sand. Please note that depending on the application, water could be mixed with up to 2-3 portions (by weight) to increase the liquidity of the grout.

### B) Topping

The topping must be applied while the bonding grout is still soft and plastic. Any conventional Portland cement topping suitable for the anticipated service requirements, may be used. If the thickness of the overlay is not over 12 mm, BETONAC® BOND-110 should be used in the suitable topping mix at a ratio of one-part BETONAC® BOND-110 to five parts of Portland cement by weight or volume. A typical mix for vertical surfaces would be: 1-part BETONAC® BOND-110, 5 parts Portland cement, 15 parts Sand.

A typical mix for floor surfaces topping acceptable for foot or light wheel traffic would be: 1-part BETONAC® BOND-110, 5 parts Portland cement, 10 parts Sand.

## Curing

BETONAC® BOND-110 patches or overlays should not be moist cured for the first 24 hours. To achieve ultimate bond strength, the emulsion must be allowed to set. Membrane curing, or covering with non-staining building paper is therefore recommended for curing BETONAC® BOND-110 patches, overlays and toppings.

## Coverage

One kilogram of BETONAC® BOND-110 used in repairing concrete surfaces with mixing ratio of (1:5:10) yields 16 kg mortar. This is sufficient to cover an area of approximately 1 m<sup>2</sup> at 1-1.5 cm thickness depending on the depth of damages.

## IMPORTANT PRECAUTIONS

1. BETONAC® BOND-110, as received, must be protected from freezing. Do not use below 4° C.
2. BETONAC® BOND-110 should be used as grout with Portland cement and sand. Do not use it without mixing with cement and sand.
3. BETONAC® BOND-110 bonding grout or topping mix must be thoroughly mixed for optimum performance. This mixing should be made by mechanical means and in such a manner as to avoid the entrapment of air and to remove all lumps.
4. BETONAC® BOND-110 bonding grout stiffens in 30-40 minutes after mixing. Mix only in small batches which may be used within this period.
5. Pre-wet surface before applying bonding grout, but remove all puddles.



6. BETONAC® BOND-110 bonding grout and topping must be intimately scrubbed onto the prepared existing concrete surface.
7. BETONAC® BOND-110 bonding grout must be soft and plastic when topping is applied.
8. All topping, whether containing BETONAC® BOND-110 or not, should be cured with a membrane curing compound.
9. All equipment used in handling BETONAC® BOND-110 and bonding grout should be cleaned with water immediately after use.
10. Air entraining admixtures should not be used in BETONAC® BOND-110 mixes.

### SAFETY INSTRUCTIONS

Gloves, barrier cream or protective clothing should be used. Prolonged skin contact may cause irritation. If accidentally splashed into eyes, flush with plenty of water and seek medical attention immediately.

### TECHNICAL DATA

**Appearance:** Milky white liquid

**Density:**  $0.99 \pm 0.01$  gm/ml

**Packaging:** BETONAC® BOND-110 is packed in 10kg Jerrycans or 1000kg IBCs

**Storage & Shelf life:** BETONAC® BOND-110 has a minimum shelf life of 1 year if stored in originally sealed packaging. It should not be exposed to direct sunbeam and protected against frost.

### LEGAL NOTES

Whilst information and/or specification contained herein is to the best of our knowledge true and accurate, and is based on many years of experience, we cannot accept any liability either directly or indirectly arising from the use of our products, whether or not in accordance with any advice, specification or recommendation given by us, as we have no direct or continuous control over how or where our products are applied.