

BOND

CEMENT-BASED BONDING AGENT FOR CONCRETE OVERLAYS

QUICK FACTS

PRODUCT NAME	Bond
PACKAGING	50 lb. Bag (22.7 kg)
FORMULAS	White
COVERAGE*	1-50 lb. Bag (22.7 kg) bag = 300-450 ft ² (28-42 m ²) as a bond coat
MIX RATIO / WATER DEMAND	6 - 7 qt. (6.6 – 7.1 liter) water to 1-50 lb. bag (22.7 kg)
SHELF LIFE	12 months in unopened bag under normal conditions when kept dry and moisture free, and out of direct sunlight
MANUFACTURER PART #	SKU # White / 50 lb. Bag (22.7 kg)

*NOTE: Varies widely due to profile, porosity of the substrate, temperature and how "thirsty" the concrete slab is

DESCRIPTION

BOND is a single component, just add water, cement-based bonding agent specifically developed for use with concrete overlays and cement repair products. Its sole function is to join these products to the host surface (i.e. concrete.) Its high cement content and dry copolymer agents create the premier bond, while the fine aggregate micro-dowels into the substrate or area to be patched. BOND is packaged with white cement and can be colored (using compatible color packs) to match the overlay being applied overtop.

BENEFITS:

- Stronger Bond Strength than Liquid Polymer
- Dry Polymer Technology
- Tintable (using compatible color packs)

SURFACE PREP

The principles for surface preparation for BOND are aligned with cement-based overlays placed on concrete and remain constant; the substrate must be:

1. **Clean:** The surface must be free of dust, dirt, oil, grease, paints, glues, sealers, curing agents, efflorescence, chemical contaminants, rust, algae, mildew, and other foreign matter that may serve as a bond breaker.
2. **Cured:** Any concrete must be properly cured to have sufficient hydration, approximately 7 to 14 days, depending on temperature and humidity.
3. **Sound:** No system should be placed on concrete that is flaking, spalling, or has hibernating spalling.
4. **Profiled:** Proper profile should follow the standard established by the International Concrete Repair Institute

(ICRI) Technical Guideline no. 03732 for Concrete Surface Profile (CSP).

The established profile is categorized as CSP-1 through CSP-4. The most common means to properly profile many concrete slabs (especially exterior slabs) is through the use of a pressure washer equipped with a turbo-tip and the use of a concentrated concrete cleaner. See technical data sheet for cleaner.

Some concrete slabs that are hard troweled or that are not sound may require more aggressive profiling through diamond grinding or shot blasting.

PATCHING AND CRACK TREATMENT

Once proper surface preparation has been achieved by either mechanical or chemical techniques, patching and crack treatment can be addressed. Patching can be completed using



a cement-based patching compound. Proper choice is determined by the depth of the patch and speed of cure. Refer to the TDS for proper application.

All cracks should be evaluated and determined if they are moving or static. Cracks that are determined to be "static" can be treated through the application of a concrete crack treatment and repair material. See appropriate TDS for application.

Never bridge any joint in concrete. Construction joints are designed to move and will telegraph through crack treatment, patching materials, and overlay applications.

TEMPERATURE/CURE

1. Air and substrate surface temperatures shall remain between 50°F (10°C) and 90°F (32°C) during and within 48 hours of placement.

2. No precipitation should occur during or within 48 hours of placement.

3. Avoid high heat and / or windy conditions. Attempt to minimize application during such harsh conditions by working during cooler hours. Keep materials shaded prior to mixing, running water until cool, and setting up temporary walls for wind blocks.

MIXING FULL BAG

1. Add 6 qt. (6.6 liter) water to a 5 gal. (18.9 liter) pail.

2. Add 1 color pack if desired.

3. Mix with a handheld concrete mixer equipped with a cage mixing blade for a minimum of 15 seconds.

4. Slowly introduce BOND into the pail with mixer running.

5. Scrape side of pail with a margin trowel to ensure all dry product is incorporated into the wet mix.

6. Continue to mix for a minimum of 1 minute after all ingredients are combined to achieve a lump-free consistency. Additional water may be added up to a total of 7 qt. (7.1 liter) per 50 pound (22.7 kg) bag.

SMALL BATCHES

1. For each 4 qt. dry mix add 1.5 qt. water (3.8 liter dry mix add 1.4 liter water).

2. Add desired water to an appropriately sized vessel.

3. Begin adding dry mix to water while running mixer. Mix with an appropriately sized mixer (from a cordless drill with a "jiffy" style blade to a heavy-duty mixer or ½" (12.7

mm) 450 – 600 rpm drill equipped with a cage mixing blade.)

4. Scrape side of pail with a margin trowel to ensure all dry product is incorporated into the wet mix.

5. Continue to mix for a minimum of 1 minute after all ingredients are combined to achieve a lump-free consistency. Additional water may be added up to a total of 1.75 qt. water to 4 qt. dry mix (1.7 liter water to 3.8 liter dry mix)

APPLICATION

BOND COAT FOR CEMENT PATCHING/REPAIR

1. The surface should be saturated, surface dry (SSD or damp, no puddles).

2. Apply product by brush or trowel / squeegee over entire area that corresponds to the area to be patched/repared.

3. While the BOND is still wet, apply patching/repair material (see the product's TDS).

BOND COAT FOR CONCRETE OVERLAY

1. The surface should be saturated, surface dry (SSD or damp, no puddles).

2. Pour a generous ribbon of BOND and spread with squeegee over an area that corresponds to the area to be covered by concrete overlay.

3. While the BOND is still wet, pour the concrete overlay onto surface (see the product's TDS).

CLEAN-UP

Before BOND dries, spills and tools can be cleaned with water.

WARNING

KEEP OUT OF REACH OF CHILDREN. Inhalation: Avoid prolonged breathing of airborne dust, particularly present during mixing. Use NIOSH approved respirator for nuisance if threshold limit values are unsafe. **Skin Contact:** Skin contact may cause irritation. Remove contaminated clothing and wash affected skin with soap and water. Launder clothing before reuse. If symptoms persist, seek medical attention. **Eyes:** Wear safety eye protection when applying. Contact with eyes may cause irritation. Flush eyes with water for 15 minutes. If symptoms persist, seek medical attention.

WARRANTY

Warranty of this product, when used according to the directions, is limited to refund of purchase price, or



replacement of product (if defective), at manufactures/seller's option. Manufacturer shall not be liable for cost of labor or direct and/or incidental consequential damages.