



Miracote BC Pro2K

Product Technical Data Sheet

Miracote **BC Pro2K** is a two component, polymer-modified, flexible cementitious bond coat and adhesion promoter for new pool plaster and replastering applications. Specially formulated to provide unparalleled performance, **BC Pro2K** delivers superior mechanical and chemical bond between new pool plaster finishes over fresh concrete, existing plaster, and waterproofing membranes. **BC Pro2K** is designed not only to

enhance performance, but to save time and the cost of application by providing a shorter window for the application of pool plaster.

WHERE TO USE

- Pools & Spas
- Raised Bond Beams
- Fountains, ponds & water features
- Dams, reservoirs, spillways and troughs.
- Tunnels, retaining walls, elevator pits and foundations.
- Water, wastewater, and secondary containment structures.
- Horizontal, vertical, above and below grade applications.
- Waterproofing protection for concrete, brick and masonry.
- Filler for “bug holes” & parge coat for a smoother finish.

ADVANTAGES

- Two component – Apply plaster within a few hours.
- Available in white – easier to work with on hot days.
- Economy and performance.
- Enhanced bonding capabilities.
- Vapor permeable – allows concrete to “breathe”.
- Excellent freeze/thaw resistance.
- Suitable for use in positive and negative side applications.
- Ideal bond coat between a cementitious waterproofing and plaster.
- Provides balanced hydration during plastering process.
- Eliminates excessive substrate preparation.
- Saves time and money – compresses work schedule.
- Significantly reduces pool plaster delamination problems.
- Low VOC – Meets LEED Criteria.
- Can be pigmented to match various plaster finishes.

THEORETICAL COVERAGE RATE

Bond coat and adhesion promoter:

One coat application.....450 to 500 sq. ft./unit

Approximate Yield/Unit 1.75 cu. ft.

**Actual consumption rates are dependent on many factors including substrate profile, application method, and allowance for waste. Above rates of application represent typical values.

PACKAGING and COLORS

BC Pro2K Liquid Catalyst (5-gallon pail) short-filled with 4 gals.

BC Pro Powder Natural Gray or White Powder (65 lb. bag)

MIX RATIO

Add 3.0 – 4.0 Gal. of Catalyst to (2) bags of powder (full kit)

Add 1.5 – 2.0 Gal. of Catalyst to (1) bag of powder (split kit)

SHELF LIFE AND STORAGE

One year from the date of manufacture when unopened and material is stored in a protected environment free from moisture, excessive heat, freezing temperatures, and direct sunlight.

TYPICAL PHYSICAL PROPERTIES @ 75°F (24°C)

Working Life..... 15-60 minutes (temperature dependent)

Setting Time 1 – 2 hours

Recoat Time 2 hours or when dry

Adhesion ASTM C932, Modified (No priming) >400 psi

Elongation ASTM D412..... 12%

Tensile Strength ASTM C307..... 450 psi

Compressive Strength ASTM C579, Method A 2,440 psi

Flexural Strength ASTM C580..... 1,180 psi

Shrinkage ASTM C531 0.015%

Freeze/Thaw..... No scaling, peeling, or flaking
(Coated concrete cylinders immersed 8 hrs. in saltwater solution followed by 16 hrs. freezing, 100 cycles)

Water Vapor Permeability ASTM E96..... 1.96 perms/in

Impact Resistance

MIL-D-3134, Para. 4.7.3 No cracking or detachment
(2 lb. steel ball dropped from 8” height onto coated steel plate)

Minimum Cure Time for Plaster 6 – 8 hours*

*(Refer to Section Bond Coat and adhesion Promoter Applications)

OVERVIEW OF INSTALLATION STEPS

• **Surface Preparation** – All surfaces must be mechanically cleaned, sound, and free from all discontinuities, mortar fins, raised or sharp edges, hollow areas, and any bond inhibiting substances including, but not limited to, loosely adhered materials, paint, mildew, algae, fungus, rust, and other foreign matter. For concrete substrates, a minimum surface profile of CSP-3 or higher is required. Concrete, mortar, masonry, natural stone, plaster and other absorptive porous substrates should be **(SSD) saturated surface dry** with no standing water at the time of application.

• **Mixing** – **BC Pro2K** must be mixed mechanically to a uniform consistency in a clean mixing vessel using a low-speed drill (300-450 rpm) with a “double-box type” or “Jiffy-type” mixing paddle. Keep drill speed low and the mixing cage submerged to minimize the risk of entraining air into the material. Pre-mix Liquid Catalyst first to re-disperse any polymer solids that may have settled in the pail. When mixing, always start with 1.5 gallons of the liquid catalyst into the mixing pail and slowly add one bag of powder, mixing for 1 to 2 minutes until well blended. As desired for the ideal mix, slowly add the additional liquid as needed and continue mixing for another minute or until the preferred consistency is achieved. Final mix consistency should be free of lumps and pockets of dry powder. When mixing full kits or less than full bags, batch powder and liquid catalyst proportionately by volume following the same procedures.

• **Application** – Depending on the type of application, **BC Pro2K** can be applied in a variety of methods including trowel, mortar brush, standard roller, loop roller, or spray-applied with a hopper-type gun or similar low or high pressure spray apparatus. Once application has begun, **never re-temper mixed material. Dispose if unusable.**

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Bond Coat and Adhesion Promoter Applications – Apply **BC Pro2K** with a conventional ¼” to 3/8” nap roller, or spray equipment such as hopper gun, rotor-stator pump or peristaltic pump. Bond coat applications require only one coat at the recommended coverage rate for the desired application method being employed. Minimum recommended cure time prior to plastering under ideal climatic conditions is 6 to 8 hours to allow for adequate hydration. Ideal climate conditions are characterized by favorable evaporation rates, such as warm temperatures, low relative humidity and air flow velocity. Allow for extended cure time in unfavorable conditions when evaporation rates, such as cool temperatures, high relative humidity or minimal air flow may slow the rate of evaporation. For maximum hydration of the bond coat to occur, 24 hours is highly preferred for the application of plaster.

FOR BEST RESULTS

- Always install a minimum 4’ by 4’ test area site mock-up for approval of acceptable color, texture, finish, adhesion, and any other critical requirement acceptable to the owner prior to proceeding with the installation.
- Verify and download current versions of product technical data sheets (PTDS), material safety data sheets (MSDS), and installation guides (IG) at www.miracote.com.
- Protect materials at all times from excessive heat and cold, and pre-condition to room temperature as necessary.
- Regularly check wet film thickness with mil gauge and monitor consumption to ensure correct application rates are obtained.
- The proper application of this product is the sole responsibility of the end user. Job site visits by Miracote representatives are only for the purpose of making recommendations, and do not assume any liability for supervision or quality control.
- Measure substrate and ambient temperatures to ensure the material is applied only when temperatures are a minimum 40°F (4.5°C) and maximum 100°F (37.8°C) during placement and cure time.
- Natural gray and pigmented cementitious coatings may exhibit color variegation due to fluctuating evaporation rates during cure.
- Wait a minimum of 24 hours prior to plaster application.

LIMITATIONS

- Do not use on Painted, Vinyl, Plastic, Fiberglass, or Sealed Surfaces.
- Plaster must be applied within 14 days after application. If that has exceeded, **BC Pro2K** will require re-application.
- Avoid applying if rain is anticipated within 24 hours.
- Do not apply if ambient and substrate temperatures do not meet the previously stated requirements.
- As with all cementitious products and materials, do not allow contact with aluminum and other alkali sensitive metals to avoid any adverse chemical reaction.

LIMITED WARRANTY

NO WARRANTY SHALL BE EFFECTIVE UNTIL THE TERMS AND CONDITIONS OF SALE SET FORTH IN CROSSFIELD PRODUCTS CORP. INVOICES ARE MET.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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**MIRACOTE BC PRO2K
12-27-2021**