



MiraPrime Concrete Conditioner

Product Technical Data Sheet

MiraPrime Concrete Conditioner is a clear, single component, odorless, water-based, penetrant that is applied to existing aged concrete in conjunction with MiraPrime Aqua-Blok XL and MiraPrime Aqua-Blok XLI when pH testing on site indicates substrate alkalinity has fallen below 10. Penetrating colloidal silicates react faster and perform best when alkalinity is high. When used as directed, *MiraPrime Concrete Conditioner* quickly

boosts alkalinity well above a pH of 10 providing a catalyst to accelerate and enhance the consistency of the crystalline reaction process.

WHERE TO USE

- Concrete structures susceptible to or affected by ASR.
- Concrete with low Ph.
- Water reservoirs and containment pits.
- Polishing of concrete floor slabs.
- Underground vaults and elevator pits.
- Dams, spillways and tunnels.
- Retaining walls and basements.
- Parking structure slabs, columns and walls.
- Concrete bridge decks and sub-structures.
- Sidewalks, balconies and breezeways.
- Masonry and stone structures.

ADVANTAGES

- Rapidly boosts the alkalinity of aged carbonated concrete.
- Accelerates and enhances the crystalline reaction process.
- Excellent penetration into carbonated concrete cracks.
- Meets USDA standards for non-incidentally food contact.
- Non-toxic, low odor and environmentally safe.

THEORETICAL COVERAGE RATES**

Cured Profiled Concrete: 200 sq. ft. per gallon

**Apply approximately 30-40 minutes after the final application of MiraPrime Aqua-Blok XL or Aqua-Blok XLI.

Above rate of application is representative of typical values.

PACKAGING AND COLORS

Kit Size: 1 and 5 gallon pails - Color: Clear

MIX RATIO

Single component – ready to use.

SHELF LIFE AND STORAGE

Two years 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. Protect from freezing at all times.

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

Vehicle Type.....	Water-based solution
Color	Colorless
Flash Point.....	None
Flammability	None
Odor.....	None
pH.....	10.5 - 11
Specific Gravity.....	1.10
VOC (grams/liter).....	0.0
Drying Time	1-2 hours

OVERVIEW OF INSTALLATION STEPS

• **Surface Preparation – Cured Concrete:** To determine whether *MiraPrime Concrete Conditioner* will be required when treating concrete with MiraPrime Aqua-Blok XL or MiraPrime Aqua-Blok XLI, it is necessary to conduct a pH test to assess the level of alkalinity. To achieve consistent and complete reactivity of colloidal silicate primers the level of alkalinity should be a pH of 10 or higher. To test for pH, it is recommended to lightly grind the concrete surface to remove what will likely be carbonated cement paste, or residual traces of sealers and any other foreign matter. Apply de-ionized or distilled water to the concrete surface and test for pH utilizing test strips or pH pencil. Digital meters may also be used. If pH test results reveal an alkalinity level below 10, it is recommended to use *MiraPrime Concrete Conditioner* to boost alkalinity. All surfaces to be treated must be clean with an open-pore structure to provide access to the capillary network within the concrete matrix. Concrete substrates need to be free from any substances that may inhibit penetration including, but not limited to, grease, oil, sealers, paint, curing compounds, form release agents, adhesives, mildew, algae, fungus, and other foreign matter. In the event subsequent Miracote surface coatings will be applied, a minimum surface profile of CSP-3 or higher is required as per ICRI surface preparation guidelines.

• **Mixing –** A single component ready to apply liquid, *MiraPrime Concrete Conditioner* should be thoroughly agitated or shaken well before use. Do not alter or dilute in any way and use strictly as supplied in original containers. Mechanical mixing is acceptable but not required. Immediately rinse thoroughly with water and clean up any spillage on surfaces not intended to be treated.

• **Application –** *MiraPrime Concrete Conditioner* must be applied using low pressure spray apparatus to ensure uniformity of surface saturation. Application by rollers, brushes or similar tools is not recommended for this purpose.

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Follow all installation instructions regarding the application of either **MiraPrime Aqua-Blok XL or XLi**. For concrete vertical surfaces use low pressure sprayers (40 psi) with a fan tip nozzle or a minimum 3/8" nap roller and begin applying from the bottom and work up the vertical face with north/south and east/west spray patterns. Saturate the concrete surface thoroughly until refusal and excess material forms a rundown pattern of 6 to 8 inches below the spray contact point. After the first coat has soaked in immediately apply the second coat and apply only as much as the surface will readily absorb. Watch for areas that dry out at a faster rate and re-apply as necessary. On horizontal substrates, apply a flood coat with enough material to maintain a wet condition for 3 to 5 minutes. If material ponds in shallow depressions use a broom or roller to evenly distribute material to surrounding areas. For maximum function and performance on both vertical and horizontal surfaces, a second wet-on-wet application within 20 to 40 minutes is required. During hot weather conditions, pre-wet the substrate to saturated surface dry (SSD) state to cool the surface down prior to application. As a final step and approximately 30-40 minutes after the last application of **MiraPrime Aqua-Blok XL or XLi**, spray-apply the **MiraPrime Concrete Conditioner** at the rate of approximately 200 SF per gallon to boost alkalinity and accelerate the crystalline reaction process. Be sure to saturate the surface thoroughly but do not flood. Allow the MiraPrime Concrete Conditioner to soak in and react for another 30 to 45 minutes, and then apply one light mist-coat of potable water to the entire treated surface. This helps transport any uncured inorganic silicate minerals near the surface and drive them deep into the concrete capillaries. This also leaves the near surface concrete pores open for the uninhibited application of subsequent coatings, stains and sealers.

FOR BEST RESULTS

- Always install a minimum 4' x 4' on-site mock up to verify actual coverage rates, and for approval of acceptable color, texture, finish, adhesion, and any other critical requirement acceptable to the owner prior to proceeding with the installation. This
- 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.
- Measure surface and ambient temperatures to ensure the material is only applied when temperatures are 40°F (4.5°C) and rising during placement and cure time.
- 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.

LIMITATIONS

- Protect **MiraPrime Concrete Conditioner** treated surface from rain for a minimum of two hours after final application.
- Protect glass, plant life, aluminum, ceramics, glazed tile, wood, vehicles and other potentially sensitive surfaces from contact by overspray. Remove with water immediately.
- **Can etch glass**, avoid contact with glass and metal. If contact is made, rinse before **MiraPrime Concrete Conditioner** it is allowed to dry on the surface.
- Do not apply if minimum/maximum ambient and substrate temperatures are 40°F (4.5°C) and above 100°F (37.8°C) 24 hours prior to and following application.

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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