



DATA SHEET NO. 3300-351

ACRY-LOK™ Acrylic Polymer Admixture

DESCRIPTION

ACRY-LOK is a high-solid, acrylic polymer latex admixture and bonding agent. This milky white liquid is non-yellowing in Portland cement mortars and concrete. When used as an admixture, ACRY-LOK provides increased abrasion, impact and crack resistance, flexural strength, and freeze/thaw tolerance. Permeability is also reduced, providing added protection from chloride intrusion and scaling.

ACRY-LOK when used to make a slurry bond coat enhances the bond between the existing concrete and placement of the fresh cement-based concrete topping or repair mortar. ACRY-LOK will not re-emulsify once allowed to fully dry.

USES

Since ACRY-LOK will not re-emulsify, concrete repairs/mortars fortified with ACRY-LOK are ideal for interior, exterior, and moisture-related applications. Typical areas that would benefit from properties of this product include concrete, toppings, mortars, grouts, and vertical, horizontal, and overhead patching. For enhanced bonding, use ACRY-LOK as an additive in slurry bond coats.

FEATURES/BENEFITS

- Enhances adhesion/Longer lasting repairs.
- Increases flexural strength/Better durability.
- Non-re-emulsifiable/Superior performance in a wet environment.
- Fortifies internally/Decreases chloride intrusion.
- Greater resistance to freeze-thaw and scaling/Better repair cycling performance.
- Multi-purpose applications/Easy to use.
- Increases abrasion resistance/Strong, permanent repairs.
- Non-yellowing/Aesthetically appealing exterior repairs.

PACKAGING

3.78 L (1 U.S. Gal.) Units (4/Carton)
18.9 L (5 U.S. Gal.) Pails
205 L (55 U.S. Gal.) Drums

SHELF LIFE

One year in unopened container, stored at 10° - 29.4° C.

SPECIFICATIONS

- ASTM C 1059-91, Type II (Non-Re-emulsifiable) (when used as a slurry bond coat)

APPLICATION

Surface Preparation ... Prepare concrete substrate in accordance with International Concrete Repair Institute (ICRI) Technical Guideline #310.2R: Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays. Mechanically roughen or high pressure water-jet existing concrete substrate to a minimum concrete surface profile (CSP) of 6 or higher, depending on substrate condition. Remove all unsound concrete and provide a profiled, porous surface. Substrate must be structurally sound, dust-free, and free of grease, oil, dirt, curing compounds, release agents, or any other surface or penetrated contaminants that will adversely affect bond. Sanding, grinding, wire-abrading, or similar are not approved surface preparation methods. Substrate must be brought to a fully saturated, surface dry (SSD) condition and free of standing water.

As An Admixture ... Typically, blend one part cement to three parts sand, then add enough ACRY-LOK until a desired consistency is achieved. To avoid trapping air, do not over mix. Place modified mortar/repair material and finish appropriately, careful not to overwork the material. For redi-mix applications, add 3.78 - 11.32 L of ACRY-LOK per 45.4 kg of cement in the redi-mix concrete. Remove equal parts water to the amount of ACRY-LOK added to avoid over-watering the redi-mix concrete. Over-watering the concrete will reduce the physical properties and longevity of the cement-based material.

Once the finishing process is completed, immediately cure work zone with undiluted ACRY-LOK or 1100 or 1600-WHITE series curing compounds from W. R. MEADOWS. Do not use solvent-based curing compounds.

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As a Slurry Bond Coat ... Mix one part cement to two parts sand, then add enough undiluted ACRY-LOK to make a slurry consistency. Typically, a 3.78 L pail of dry, combined sand/cement mixed with 3.8 - 5.7 L of undiluted ACRY-LOK will yield 3.7 m² (40 ft.²) applied at 3.2 mm (1/8") depth. Work slurry into the properly prepared, SSD concrete substrate with a stiff masonry brush, coating the entire area, paying special attention to the corners, sides, and any exposed rebar. Place concrete or mortar material prior to the ACRY-LOK slurry bond coat becoming tack-free, usually 30 minutes at 24° C. High temperatures, direct sun, or windy conditions will shorten tack-free time.

As A Bonding Enhancer (Neat) ... ACRY-LOK used neat will generally enhance the bond, but does not conform to the bonding requirements of ASTM C 1059-91, Type II. Apply ACRY-LOK undiluted by brush, roller or garden-type sprayer on to the properly prepared surface at rate of 2.45 - 4.90 m²/L (100 - 200 ft.²/gal.) depending on porosity. Place concrete or mortar before ACRY-LOK surface dries, usually 10 - 15 minutes. If ACRY-LOK dries, it will interfere and reduce the bond strength of the material which is going to be applied. If ACRY-LOK dries, it may be reapplied once. Make sure that the surface of first application has not been contaminated.

PRECAUTIONS

Designed for professional contractors; industrial use only. Do not allow ACRY-LOK to freeze; properly dispose of any material that has been frozen. Do not apply or use as an admixture when the temperature is expected to be below 7.2° C at any time within 48 hours of application or when rain is expected within a 24 hour period. Avoid over mixing and overworking the surface. ACRY-LOK may increase air content. ACRY-LOK will alter mechanical properties. Not to be used as a structural bonding agent for concrete toppings <25.4 mm thick. Do not wet cure products modified with ACRY-LOK, including onsite test cylinders or if used a slurry bond coat.

This data sheet provides a summary of the factors, precautions, limitations, and design theories that should be considered when designing a project or application, but is not stand alone or complete; project, environmental, and application specific requirements must be considered before drafting a guide specification, determining suitability, or application of material. The suitability and/or functionality of the product are the direct and sole responsibility of the licensed design professional, applicator, and/or installer of the material.

HEALTH AND SAFETY

Avoid direct contact with this product. Use of safety glasses, rubber gloves, and protective clothing is recommended. If contact occurs, wash affected areas with mild soap and water. Keep product out of reach of children. Refer to Safety Data Sheet for complete health and safety information.

MASTERFORMAT NUMBER AND TITLE

03 05 00 - Common Work Results for Concrete

LEED INFORMATION

May help contribute to LEED credits:

- MRc9: Construction and Demolition Waste Management
- EQc2: Low-Emitting Materials [For Healthcare and Schools (exterior-applied products) ONLY]

For most recent data sheet, further LEED information, and SDS, visit www.wrmeadows.com.



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