



No.350

CSI Code: 03050

JULY 2004)
(Supersedes February 2004)

INTRALOK®

Bonding Agent and Integral Mix/Admixture

DESCRIPTION

INTRALOK Bonding Agent is a high-solids content, water dispersion of bonding polymers compounded specifically for modifying Portland Cement compositions. It is a milky-white, non-yellowing liquid ready for use as an interface or intramix bonding agent. When properly mixed and applied, INTRALOK forms a bond between new-to-old concrete that is typically stronger than the concrete.

Cement mortars modified with INTRALOK are hard, tough and durable. It offers superior tensile, flexural, and impact strengths. Also, mortars and concrete modified with INTRALOK typically show greater adhesion.

INTRALOK-modified concrete is unaffected by ultraviolet light and will not yellow.

USES

INTRALOK's most common uses are for patching and resurfacing, spray and fill coats, repairing precast building panels and beams, industrial flooring, highway and bridge deck repairs.

INTRALOK is ideal for interior or exterior bonding, topping, leveling, patching and dressing of concrete and masonry. As a bonding agent, it improves the adhesion of pneumatically hand-applied concrete or mortar. INTRALOK-modified mortars provide excellent adhesion to a variety of surfaces, including concrete and masonry. The result is a more attractive, durable, uniform and weatherproof concrete finish which costs far less than polishing or rubbing.

INTRALOK is also ideal for use as an interface or intramix bonding agent in bonding slurries, topping mixtures, finishing and mortar mixes.

FEATURES AND BENEFITS

- Forms an excellent bond to concrete.
- Functions equally effectively for interior or exterior repairs between new-to-old concrete
- Offers superior flexural, adhesive and impact strengths plus excellent abrasion resistance
- Provides a hard, durable, weather-resistant finish at far less cost than polishing or rubbing
- Will not after-yellow
- Will not stain or discolor concrete
- Ready-to-use...requires no additional mixing
- Reduces permeability
- Reduces chloride intrusion

SPECIFICATIONS

- ASTM C 1059, Type 1 (Re-emulsifiable)
- Approved by the Ministry of Transportation, Quebec

PACKAGING

- 1 gallon (3.79 L) Units (4 per carton)
- 5 gallon (18.93 L) Pails
- 55 gallon (208.20 L) Drums

COVERAGE

Approximately 200 sq.ft./gal. (4.91 sq.m/L) straight.

Application Tools



Stiff Brush



Pointed Trowel



Paint Brush



Wood Float



Hand Sprayer

CONTINUED ON REVERSE SIDE...

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APPLICATION

Surface Preparation...All surfaces must be structurally sound, clean and free of grease, oil, dust, dirt, curing and release compounds and other foreign contaminants. All loose and unsound concrete must be removed.

Pre-soak all surfaces with water to a saturated, surface dry (SSD) condition prior to applying INTRALOK. INTRALOK Bonding Agent must be thoroughly worked and scrubbed onto the prepared concrete surface in order to realize maximum bonding efficiency. The cementitious material must be applied while the INTRALOK is still tacky.

Mixing...Specific mixing proportions for these various INTRALOK mixes are listed on the container. All cautions, mixing and application information and directions furnished on container labels should be read and followed. For normal mixing, dry blend the Portland cement and sand. Mix the INTRALOK and water together, add the cement-sand mix and then mechanically blend the complete mix thoroughly. The quantity of water should be determined by trial mix...where only 50% of the water is first added to the INTRALOK before adding to the sand-cement mix. After thorough preliminary mixing, add increments of additional water until the desired consistency is obtained.

Application Mixes by Volume**1. Bonding Slurry:**

1 part INTRALOK
2.5 parts Portland cement
2.5 parts fine sand (ASTM C 144)
Water: Enough for a thick, creamy consistency (Approximately 1 part).

One-gallon unit of INTRALOK used to mix a bonding slurry will yield approximately 0.47 cu. ft. (0.14 cu.m.), enough to cover an area of 90.24 sq. ft. (8.45sq. m.) at 1/16" (1.59mm) thickness or 45 sq. ft. at 1/8" (3.18mm) thickness. Apply with a stiff bristle brush; be sure to work bonding slurry into existing concrete pores.

2. Topping and Shallow Patching Mix:

1 part INTRALOK
5 parts Portland cement
15 parts fine sand (ASTM C 404, Size #2) Water:
Enough for trowelable consistency (Approximately 2 parts).

A representative test area should always be applied if INTRALOK is to be used with a pigment to insure proper color, shading and resistance to efflorescence.

3. Mortar Mix:

1 part INTRALOK
5 parts Portland cement
15 parts fine sand (ASTM C 404, Size #2)
Water: Enough for desired consistency (Approximately 1-1/2 to 2 parts).

One gallon of INTRALOK used in a topping or mortar mix will yield approximately 1.8 cu. ft. (.05cu. m.) to cover an area of 86 sq. ft. (7.99 sq. m.) at 1/4" (6.35mm) thickness. Topping or mortar mix should be applied while the INTRALOK Bonding Slurry is still soft and plastic.

4. Finish Mix: (For non-traffic surfaces)

1 part INTRALOK
10 parts Portland Cement
10 parts fine sand (ASTM C 404, Size #2)
Water: Enough for stiff, brushable consistency (Approximately 4 parts).

PRECAUTIONS

Keep from freezing. Approximate work life is 30-40 minutes at 70°F. Use care in finishing thin overlays. Wood float when possible. Steel troweling should be limited to a minimum number of passes 10-15 minutes after placement. When INTRALOK is used in a bonding grout and the patch topping is plain concrete, use a membrane curing compound. If the patch or topping contains INTRALOK as an admixture, wet curing is not recommended.

INTRALOK Bonding Slurry or Topping Mix should be mixed thoroughly to remove lumps. Avoid air entrapment. Clean tools with water immediately. Follow all cautions on container labels. Do not add to premixed grouts. Specifier and user shall determine suitability of product for specific applications and assume all responsibilities in connection therewith. INTRALOK has an effective shelf life of 6 months from the date of manufacture.

Note: Increased amounts of various fillers, extenders or additives in the concrete mix can result in the concrete having a higher than normal porosity and some very porous hot spots. Coverage ratios must be adjusted to compensate for resulting penetration and additional coverage coats required to provide proper surface treatment. Read and follow application information and precautions. Refer to Material Safety Data Sheet for complete health and safety information.

FOR THE MOST CURRENT PRODUCT INFORMATION, VISIT OUR WEBSITE:

www.wrmeadows.com

LIMITED WARRANTY

"W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order." Read complete warranty. Copy furnished upon request.

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