

HI-REFLECTIVE® COLORCRON
Dry Shake, Mineral Aggregate Surface Hardener

APPLICATIONS:

- Indoor and outdoor installations where requirements include both light reflectivity and durability.
- Areas needing improved lighting in the work environment to improve productivity.
- Warehousing and storage areas, automotive service shops and other maintenance facilities.
- Shopping centers, motels, schools, theaters, sidewalks, driveways and residences.

IMPORTANT: READ THIS FIRST

Master Builders does not warrant the performance of this product unless the instructions of this document and other related Master Builders documents are adhered to in all respects.

DIRECTIONS:

Note: These steps have been found to be an effective method of applying HI-REFLECTIVE COLORCRON surface hardener to achieve a floor which is durable and provides the highest light reflectivity. However, ideal characteristic results of these, or any construction product, are highly dependent upon ambient conditions, adequate labor, proper equipment, etc.

Arrange to have a pre-job conference with your local Master Builders representative to discuss all aspects of the dry shake application. At that time, it is strongly advised that a copy of the proposed mix design be given to your Master Builders representative. Cement, aggregate size, aggregate gradation, admixtures, etc. can all affect set time and the ability of the dry shake to be incorporated into the slab.

Proper timing is essential for successful installation of this product. Care should be taken to follow given procedures at the recommended time.

PREPARING THE BASE CONCRETE:

Pump, place or otherwise convey the base concrete at a slump that is not in excess of 5" (12.7 cm). After the concrete has been placed and the water sheen has disappeared, just prior to initial set (a finisher with knee boards will leave an approximate 1/4" impression) float the concrete with a machine fitted with float shoes. Hand float the edges with wood floats. Early moisture loss and rapid setting around the perimeter of the slab are typical, and should be monitored closely for proper timing of the floating operation.

RATE OF USE:

Use HI-REFLECTIVE COLORCRON at a rate of 1.0 to 2.0 lbs/ft² (4.9 - 9.8 kg/m²). The minimum rate of application for HI-REFLECTIVE COLORCRON is 1.0 lb./ft.².

For your specific application rate, refer to the project specification or consult your local Master Builders representative to discuss your particular needs.

SHAKE APPLICATION:

The shake is applied in two applications. Two-thirds of the total amount is applied and floated on the first application and the remaining third on the second application and floating. **DO NOT APPLY THE DRY SHAKE INTO BLEED WATER.**

Following the first floating of the base concrete, apply two-thirds of the dry shake so that a uniform distribution of the surface hardener is obtained. The most efficient, economical and precise method of applying a dry shake is through the use of an automatic spreader. When the application of the surface hardener will be conducted by hand or square tip shovel, apply each pass perpendicular to the previous application to better insure complete coverage.

Allow the shake to absorb water (the surface will somewhat darken), then incorporate dry shake into the surface of the slab with a wooden bullfloat or floating machine equipped with float shoes. A wooden bullfloat is preferable as it tends to open the slab rather than closing it off and possibly trapping bleed water under the dry shake layer.

As the floating of the first shake proceeds, follow immediately with the second shake. Allow this to absorb water through the first shake prior to floating into the surface.

Note: When more than 1.0 lb. /ft² will be applied or in hot and windy conditions, more than two shake applications may be necessary. UNDER NO CIRCUMSTANCE should water, evaporation retarders or finishing agents be applied to help "wet up" HI-REFLECTIVE COLORCRON.

TROWELLING:

When appropriate, conduct 2-3 mechanical trowellings. On the first trowelling, keep trowel blades as flat as possible without digging into the surface. As the surface "tightens" further, the trowel blades may be gradually raised to produce the desired surface. DO NOT BURNISH.

CURING:

PROPER CURING IS VERY IMPORTANT. DO NOT WET CURE HI-REFLECTIVE COLORCRON. Apply the curing compound as soon as possible without marring the surface of the finished floor. Use an approved Master Builders curing compound. When it is known in advance that the curing compound is to be removed, discuss removal procedures with your Master Builders representative so that the curing compound can be removed as soon as possible after the curing period.

Note: Some curing compounds "yellow" upon exposure to ultraviolet light. These types should be avoided or removed after curing is completed and after trades are not still working on the floor.

SUPPLEMENTAL:

- Do not install Hi-Reflective Colorcron:
 - on areas where floor surfaces will be exposed to acids, their salts or corrosive materials which seriously and/or rapidly attack cement.
 - over concrete containing added calcium chloride or concrete containing aggregate that has been saturated with salt water.
 - over concrete containing more than 3.0% air.
 - where resistance to struck sparks is desired.
- Wood hand floats are preferred over magnesium hand floats.
- During the finishing operation, if any blistering occurs, flatten trowel blades immediately. Refloat to "open" floor and remove blisters. Delay raised trowelling until no blisters occur.
- Place concrete floors under roof, if at all possible. Job conditions that influence surface drying and setting time of concrete also affect the timing of the hardener application, the finishing procedures and the reflectivity of the slab.
- Unvented flue and exhaust gasses from heaters and equipment can cause a carbonated floor surface. This results in a weak and potentially dusting surface. Proper ventilation must be provided.

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