



ChemMasters®

Concolor™

Dry Shake Hardener

SPECIALTY CONSTRUCTION PRODUCTS

P R O D U C T D A T A

DESCRIPTION

Concolor is a ready to use, natural aggregate dry shake hardener for concrete. It is composed of washed and specially graded quartz silica aggregate, cementitious binders, proprietary plasticizers, dispersing agents and stable colorants. **Concolor** is recommended for ACI 302, Class 2, 3, 4, 5 and 6 floors.

USES

- Interior and exterior horizontal concrete surfaces.
- Industrial, commercial and warehouse floors
- Loading docks, walkways, ramps
- Airline hangars, schools, hospitals, shopping malls
- Distribution centers, manufacturing and assembly facilities

ADVANTAGES

- Dense, non-dusting surface resists liquid penetration, reduces maintenance costs
- Abrasion resistance significantly greater than plain concrete surfaces
- Standard colors and special architectural color matching available subject to minimum orders
- May be placed in wet or damp environments, will not oxidize or discolor
- Controlled consistency of premixed material eliminates errors and labor intensive site mixing

Packaging Product Number

50 lb (22.7kg) bags	60 per pallet	F4000.50
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TECHNICAL DATA

SPECIFICATIONS:

CSI Division 3 Masonry—03-35-00 Concrete Finishing

Test Data

ASTM C779	
Abrasion Resistance Versus plain concrete	
@ 1.0 lb per ft ²	150%
@ 1.5 lb per ft ²	175%
@ 2.0 lb per ft ²	200%

Estimating Guide

Varies on service conditions and abrasion resistance requirements

1.0 to 2.5 lbs/ft² (5 to 12kg per m²)

APPLICATION

Pre-job Conference: ChemMasters strongly recommends scheduling a pre-job conference two weeks prior to installation of any dry shake floors. Conference attendees should include representatives of the owner, engineering firm, ready mix concrete producer, general contractor, concrete subcontractor and ChemMasters. Topics should include a review of the concrete mix design, logistics, placement and curing procedures.

Best results will be obtained by following the recommendations in ACI 302.1, *Guide to Floor and Slab Construction*, and the directions below. Refer to ACI Reports 305 and 306 for hot or cold weather placements. For pigmented dry shakes where the final color and color uniformity are important, it is required that a test be performed prior to placement of the slab. The test area should be a minimum of 100 square feet and the mix design of the concrete and the **Concolor** application and coverage rate should be as specified. Owner sign-off on the color should be required by the contractor before proceeding with the project.

CONCRETE PROPERTIES: No air entraining admixtures are permitted on interior floor slabs. A maximum air content of 3% is acceptable. The use of water reducers, plasticizers and non-chloride accelerators affect the amount of water available for incorporation of the dry shake hardener. Their use may require an adjustment in slump to maintain specified water-cement ratio and application rate. For exterior placements subject to freeze-thaw cycling or if placement temperatures will be above 80°F (27°C) or below 40°F (4°C) or if high wind, low humidity or direct sunlight conditions exist, consult ChemMasters technical service staff for specific recommendations.



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Application: Place concrete, striking off with a screed and/or straightedge as usual. Allow concrete to stiffen. Application of colored dry shakes should be delayed as much as possible to achieve uniformity of color. Apply 2/3 of the specified amount of material. Allow initial shake application to absorb moisture and attain a uniform dark color. Float surface then apply remaining one-third of shake material.

Do not work slab until the concrete has stiffened sufficiently to support the weight of a finisher and finishing machine. Use float blades for initial operation, do not use combination blades. Follow floating operation with flat trowel then raised trowel passes to produce dense surface texture for greatest durability.

Curing: As soon as the surface will not be marred by the application, apply a membrane forming curing compound such as **Polyseal WB**.

For best results use clear film forming curing products on patterned concrete surfaces. Do not wet cure. For floors in chemical environments, consult ChemMasters for alternate curing and sealing options.

After curing compound has dried, protect the finished surface from staining and damage by the other construction trades by using non-staining paper or polyethylene sheeting. However, these materials must not be used for curing.

CLEANUP

Clean tools and equipment with water before material dries and hardens.

LIMITATIONS

- Do not burnish colored floors on final trowel finishing.
- Work edges first to prevent premature drying.
- To assure proper density and durability when a broom finish is desired, trowel surface first then apply texture.

Note:

The recommendations offered in this data sheet are based on previous experience under similar job conditions and on accepted industry practices. They may be followed, modified or rejected by the architect, engineer, owner, contractor or their representatives as they are responsible for planning and execution of procedures appropriate to a given installation.

STORAGE

Store bags in cool, dry place on pallets. Protect from rain and moisture. Shelf life is one year from date of manufacture.

Precautions:

DANGER: Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Causes serious eye damage. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary Statements: Obtain special instruction before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

This Product is Formulated and Labeled for Industrial and Commercial Use Only

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT PRODUCT & SAFETY DATA SHEETS AND PACKAGE LABEL FOR THIS PRODUCT. We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE, COURSE OF DEALING OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.