

MasterTop[®] 110ABR

Abrasion-resistant mineral-aggregate dry-shake hardener

FORMERLY MAXIMENT[®] HD

YIELD

Moderate duty: 1.0 lb/ft² (4.9 kg/m²)

Heavy duty: 2.0 lbs/ft² (9.8 kg/m²)

Contact your local Master Builders Solutions representative to discuss coverage rates specific to your job.

PACKAGING

55 lb (25 kg) multi-wall bags

SHELF LIFE

18 months when properly stored

STORAGE

Store in unopened packaging in a clean, dry environment protected from sunlight at 50 to 90° F (10 to 32° C).

VOC CONTENT

0 g/L less water and exempt solvents

DESCRIPTION

MasterTop 110ABR is a coarse top-sized, graded quartz-mineral-aggregate dry shake. It is applied over freshly placed and screeded concrete to increase its wear resistance.

PRODUCT HIGHLIGHTS

- Quality-control tested before shipment to jobsite for uniformity among bags.
- Maximum hard aggregate surface density allows moderate to heavy application rates in 1 pass at 1.5 lbs (0.7 kg).
- Applies with mechanical equipment to ensure uniform coverage
- High abrasion resistance that is equal to or greater than jobsite or prepackaged trap-rock aggregates or other mineral dry shakes.

APPLICATIONS

- Concrete floors in need of increased wear resistance
- Floors that are frequently or continually wet
- Industrial, warehouse, and distribution centers
- Refrigerated food-storage areas

LOCATIONS

- Interior floor surfaces

SUBSTRATE

- Freshly placed concrete

HOW TO APPLY

SURFACE PREPARATION

1. Preparing the base concrete: Pump, place, or otherwise convey the base concrete at a slump not in excess of 5" (12.7 cm) for a slab on grade. (Please contact your local Master Builders Solutions representative for information on special suspended-slab applications.) After the concrete has been placed immediately screed, then bullfloat / highway straightedge the surface. Allow bleed water to rise to surface.
2. Early moisture loss and rapid setting around the perimeter of the slab are typical. Monitor them closely for proper timing of the floating operation.

APPLICATION

1. Do not apply the dry shake into the bleed water. If excessive bleed water is present, remove standing water by dragging a hose across the surface or using a squeegee or other approved method.
2. After the water sheen has disappeared and just before initial set (when a finisher with knee boards will leave approximately $\frac{1}{8}$ – $\frac{1}{4}$ " (3 – 6 mm) impression), float the surface of the slab "open" with a mechanical float fitted with float blades.
3. Apply and integrate one-half to two-thirds of the total amount on the first application and the remaining portion(s) on the subsequent application(s). Do not apply more than 1.0 lb/ft² (4.9 kg/m²) in 1 pass. An automatic spreader is the most efficient, economical, and precise method of applying a dry shake.
4. Once the shake has absorbed sufficient moisture, the surface will somewhat darken. Float and incorporate the dry shake into the surface with a floating machine equipped with float blades or with a wooden bullfloat. A heavy wood float is preferable because it tends to open the slab rather than close it off and possibly trap bleed water under the dry shake layer.
Note: Do not use pan floats to incorporate the dry shake into the base concrete. They may be used only for final floating to achieve flatter floors. Hand float edges with wood or laminated canvas-resin floats or darbies. Do not use magnesium floats, as this can lead to discoloration.
5. As the floating of the first dry-shake application proceeds, follow immediately with the subsequent shake application.
6. Once the second shake has absorbed sufficient moisture (the surface will somewhat darken), float the surface with a floating machine equipped with float blades or a wooden bullfloat. Hand float edges with wood floats or darbies.
7. As the floating of the dry shake proceeds, follow immediately with a subsequent shake application, if appropriate.

TROWELING

1. When appropriate, conduct 2 – 3 mechanical trowelings. Leave the prepared slab untouched until the surface has lost its sheen and can support the weight of a finisher and a finishing machine. At this point, conduct the first troweling of the surface. On the first application, keep trowel blades as flat as possible without digging into the surface.
2. As the surface tightens further, gradually raise the trowel blades to produce the desired surface. Remove all marks and pinholes in the final slightly raised trowel application. Note: Do not burnish colored dry-shake or light reflective floors.
Note: All moisture used to incorporate dry-shake material must come from within the slab. UNDER NO CIRCUMSTANCES SHOULD WATER BE APPLIED TO AID IN THE INCORPORATION OF THE DRY SHAKE.
1. Under severe or rapid drying conditions (hot and/or windy), MasterKure ER 50 evaporation reducer or other approved materials may be mist sprayed onto the dry shake according to prevent rapid-moisture loss. MISUSE OF THESE MATERIALS CAN COMPROMISE COLOR AND PERFORMANCE OF THE DRY SHAKE.

CURING

1. At the completion of final troweling and when the surface will not be marred by foot traffic, apply a Master Builders Solutions-approved membrane curing compound according to directions or fabric backed curing blankets (not burleen). For VOC-compliant requirements on colored floors consult your local Master Builders Solutions representative for recommendations.
2. After drying, protect hardened surface by covering with scuff-proof, non-staining builder paper.
3. Keep floors covered and free of traffic and loads for a minimum of 10 days.
4. Maintain ambient temperature of 50° F (10° C) or above during the curing period.

JOINTS

1. After a minimum of 90 days, apply a semi-rigid epoxy joint filler, such as MasterSeal CR 190 or MasterSeal CR 100 in all non-dynamic control and saw-cut construction joints. Place the joint filler in compliance with manufacturer's instructions. Discuss the timing and methods for cutting joints at the pre-job conference and in conformance with ACI 302.
2. Delay the installation of the joint filler material as long as possible to allow the slab(s) to adequately cure. Complete curing will reduce the amount of separation between the slab and the joint filler. Please refer to ACI 302R-96, Chapter 9.10.

MAINTENANCE

Clean MasterTop 110ABR floor surfaces with normal mechanical scrubbing or damp mopping techniques, using a high-pH detergentbased cleaner. MasterTop 110ABR floors may be swept and vacuumed with normal sweeping equipment used to clean ordinary concrete floors. MasterTop 110ABR floors do not require high maintenance to remain serviceable.

FOR BEST PERFORMANCE

- Do not use when internal point loading or steel-wheeled traffic is anticipated.
- Do not use on areas exposed to acids, their salts, or other materials that attack or deteriorate Portland cement concrete.
- Do not use where resistance to struck sparks on the surface is desired.
- Where additional impact resistance, abrasion resistance, resistance to struck sparks, or energy saving light-reflective colors are needed, consult your local Master Builders Solutions representative regarding MasterTop 200, MasterTop 300, and MasterTop 210COR surface hardeners.
- Do not use in areas where heavy impact is anticipated.
- Do not use over concrete containing more than 3% air content when tested by ASTM C 173, ASTM C 231, or ASTM C 138 procedures.

- Do not place dry shake on slab without a roof cover.
- Make certain the most current versions of product data sheet and SDS are being used; visit www.master-builders-solutions.com/en-us to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by Master Builders Solutions personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

HEALTH, SAFETY AND ENVIRONMENTAL
Health, Safety and Environmental Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting www.master-builders-solutions.com/en-us, e-mailing your request to mbsbscst@mbcc-group.com or calling 1(800)433-9517. Use only as directed.

IN CASE OF EMERGENCY: Call CHEMTEL +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.

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