

MASTERTOP® 112 TOPPING

Self-Leveling Polymer Modified Industrial Topping

IMPORTANT: READ THIS FIRST

Master Builders, Inc. 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.

SURFACE PREPARATION:

Substrate must be sound, clean and free of oil, sealers, curing compounds, cutback, paint, polymer coatings, dust or other foreign (bond breaking) matter. Remove all weak or broken pieces of concrete or other loose substrate material. Employ mechanical equipment such as sandblasting, shotblasting, or hydroblasting to obtain adequate surface preparation.

Joints and cracks should be filled (grouted) to prevent seepage through to bottom areas. Consult with your Master Builders representative for product recommendations.

NOTE: Joints should always be cut in toppings directly above those in the base slab to avoid reflective cracking.

APPLICATION:

PRIMING: Dilute M.B. Primer 1:1 with water and apply to properly prepared substrate using a push broom. Do not use a roller, squeegee, or sprayer to apply. One gal (3.6 L) of diluted M.B. Primer will cover approximately 350 to 400 ft² (32.5 to 37 m²) of floor surface. Apply a thin film of mixed primer, avoid puddling of primer, allow primer to dry completely to a blue film (3 to 4 hours at 70 °F (21 °C) and 50% relative humidity).

IMPORTANT: Primer must be dry (not tacky) prior to application of MASTERTOP 112 TOPPING. If concrete is extremely porous, two coats of primer may be necessary. The primer re-emulsifies when coming in contact with the wet material, therefore the primed substrate may be left for up to three days without repriming. The surface must remain clean and free of any debris. If area becomes dirty or contaminated the surface must be cleaned and reprimed.

MIXING:

Add MASTERTOP 112 TOPPING to water - (not "water to material"). Mix 4 qt (3.6 L) of sufficient clean, drinkable water to a 50 lb (22.7 kg) bag of material. The best way to evaluate flow consistency is to measure with a flow ring based on flow test using a 7/8 in. (21 mm) high, 2 in. (5 cm) inside diameter PVC pipe. The optimal flow is 5-1/2 to 6-1/2 in. (14 to 16 cm). Mix with high shearing action such as a drill with jiffiler blade at 600 rpm and mix for 3 to 5 minutes. Prior to the actual job it is strongly advised to do trial mixes to familiarize the applicator with product in relation to local job conditions. Once the water content is determined, use a calibrated bucket with holes drilled at the proper height to spill out excess to maintain a constant water content.

PLACING:

Pour the product over the prepared substrate or pump through a suitable pump (i.e. ChemGrout) to desired thickness [not less than 1/4 in. (6 mm)]. MASTERTOP 112 TOPPING will seek its own level in approximately 15 minutes at 70 °F (21 °C). For hard to reach areas and touch-ups, a spreader or come-along may be used.

MASTERTOP 112 TOPPING may be placed at any thickness without being extended. For economic reasons, it may be extended with 25 lb (11.3 kg) of clean 3/8 in. (10 mm) pea gravel. Do not add additional water. Flow may be impeded by up to 15% with compressive strength reduction of up to 20%. The surface will not be as smooth as desired. For this reason the extended material should be left 1/4 in. (6 mm) low and be capped with neat material.

SEALING:

After air curing for approximately 48 hours, MASTERTOP 112 TOPPING must be sealed to avoid penetration of water and any contaminants. Until surface is properly sealed, avoid contact with rain, snow and other forms of moisture or water.

To seal, apply ACRYL-SET® Liquid Polymer by brush, roller or squeegee at 3000 - 400 ft²/gal (28 -37 m²/L), or other approved Master Builders sealing compound.

The specific sealer used is dependent upon the intended use of the floor surface. It is recommended that you consult your local Master Builders representative to discuss this matter.

IMPORTANT:

This is a cementitious based product. Therefore;

- DO NOT install MASTERTOP 112 TOPPING if base slab temperature is below 40 °F (5 °C).
- In warm weather, store bags in a cool place away from direct exterior exposure to sun, use cool water for mixing, proceed quickly with application and take adequate measures to protect MASTERTOP 112 TOPPING from exposure to direct, strong sunlight and wind.
- It is highly suggested that a 10 ft x 10 ft test application be made to become familiar with specific product characteristics.

WARNING: CEMENTITIOUS MATERIAL MAY CAUSE IRRITATION. AVOID CONTACT WITH EYES AND PROLONGED CONTACT WITH SKIN. IN CASE OF CONTACT WITH EYES, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN. IN CASE OF CONTACT WITH SKIN, WASH SKIN THOROUGHLY. KEEP PRODUCT OUT OF REACH OF CHILDREN.

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