



# A Thin, Flexible, Cementitious Topping for Concrete Restoration

# MICRO-TOPPING

## DESCRIPTION & USE

MULTICOAT MICRO-TOPPING is a high quality, polymer modified, cement based, smooth finish coating, that when mixed with water, produces a tough, durable finish. The finish is then able to accept dye, stains, and sealers.

## ADVANTAGES:

- Chemical Resistant
- Attractive Finishes / Colors / Textures
- Seals Concrete
- Cost Effective & Easy to Apply
- Easy to Clean
- Freeze - Thaw Resistant
- Water-based - Environmentally Safe to Use
- Flexible
- Interior or Exterior



## SURFACE PREPARATION

MULTICOAT MICRO-TOPPING must be applied to structurally sound substrates. The substrate must be free of mold, mildew, grease, oil, dirt, dust, wax, curing compounds, sealers, paint, efflorescence and any loose material.

Cleaning may be accomplished by acid etching, mechanical sanding or minimum 3500 psi power washing. If the surface is cleaned with muriatic acid, it must be thoroughly neutralized by flushing with a solution of baking soda and water. Smooth steel troweled concrete must be roughened to insure a good bond. If patching of the concrete surface is necessary, it may be re-leveled with Multicoat Speed Mix.

## EXPANSION JOINTS

The control and expansion joints are NECESSARY. Do not fill expansion or control joints with MICRO-TOPPING. Structural cracks and cracks due to continuing movement of the substrate may telegraph through the MICRO-TOPPING. After application of MICRO-TOPPING fill expansion or control joint with suitable caulking.

## MIXING

Pour 5 to 7 quarts of water into a clean pail. Do not deviate from this amount. Slowly add MICRO-TOPPING to the pail. To avoid lumps, add the powder slowly while mixing. Faster mixing can be achieved by using a drill and paddle mixer. Consistency should be that of pancake batter. Let mixture stand for 3-5 minutes (depending on weather) and then remix.

Add Multicoat Colorant at this time if so desired. To insure uniformity, add the same amount of colorant to each pail. Color variations may occur within each pail.

## APPLICATION:

MICRO-TOPPING is typically applied using a steel trowel or "Magic trowel" for a smooth finish. MICRO-TOPPING can also be applied using a hopper gun or squeegee. MICRO-TOPPING should be dry after approximately 6-8 hours depending on temperature and humidity. MULTICOAT MULTI-STAIN, ACRATHANE COLORSEAL or CLEARSEAL may be applied.

**Do not bridge expansion or control joints with the MICRO-TOPPING.**

## LIMITATIONS:

- Do not apply if substrate temperature is below 40°F or above 100°F, or if ambient temperature below 40°F above 100°F.  
Do not apply if precipitation is expected within a twenty four (24) hour period.
- Newly poured concrete slabs must cure for a minimum of 14 days.
- If product is applied during hot and windy weather, the product will set too fast and become unworkable.
- Installations requiring acid and/or industrial chemical resistance require MICRO-TOPPING to be sealed with Acrathane sealer.



- Using too much water will prevent MICRO-TOPPING from curing properly.
- Applying the MICRO-TOPPING too thick will increase the susceptibility of mud cracking.

**COVERAGE:**

The thickness, application method, number of coats applied, surface absorption, weather conditions, etc., will affect square foot coverage per bag. Typical coverage per bag will range from 100 to 300 sq. ft. per bag.

**PACKAGING AND STORAGE:**

MICRO-TOPPING is furnished in 50-lb bags. Shelf life is approximately 24 months. Store in a dry environment.

**SAFETY:**

May cause eye, skin or lung injury. Contains free silica. Eliminate exposure to dust; prolonged exposure to dust may cause delayed lung disease (silicosis). Use NIOSH approved mask for silica dust. Contains cement. If any cement mixtures gets into eyes, flush immediately and repeatedly with water and consult a physician promptly. Freshly mixed cement, mortar, concrete or grout may cause skin injury. Avoid contact with skin. If skin comes in contact with material, wash exposed areas promptly with water. MSDS available online at [www.multicoat.com](http://www.multicoat.com)

**DAMAGE LIMITATION**

Seller shall not be liable for any damages, injury, loss, direct or consequential, resulting from its products. The parties intend that the limitation of damages, including consequential damages, applies even if the exclusive remedy provided for herein fails of its essential purpose.

**EXCLUSIVE REMEDY**

Seller's sole obligation, and buyer's exclusive remedy shall be to replace material if found to be defective.

**WARRANTY DISCLAIMER**

There are no warranties which extend beyond the description of the fact hereof. Seller expressly disclaims all other warranties regarding the use of its products, whether expressed or implied, including the implied warranties of merchantability and for fitness of a particular purpose. Since use of the product is beyond the Seller's control, the Buyer assumes all risk of use.

**WARRANTY**

Materials are guaranteed with respect to uniformity and quality within manufacturer's specifications.

**TEST DATA - MICRO TOPPING**

TEST	METHOD	RESULTS
1. Weatherometer .....	ASTM G23 .....	2000 hrs - Passed
2. Compressive Strength .....	ASTM C109 .....	45 Days air cured .....2595 psi
3. Tensile Strength .....	ASTM-C190 .....	.....457 psi
4. Bond Strength (Flatwise Tension).....	ASTM-C297 .....	.....225 psi
5. Abrasion Test.....	ASTM-1242A .....	1000cyc-1000gms ..... 39 mil loss
6. Salt Spray .....	ASTM-B117 .....	..... 300 hrs - Passed
7. Water Vapor Transmission .....	ASTM-E96A .....	..... 8.5 Perms
8. 50-Cycle Freeze thaw.....	ASTM-C67 .....	..... Passed
9. Flexural Strength .....	ASTM-D790 .....	..... Modulus of Rupture - 770psi
10. Impact Resistance.....	MIL-D-3134F.....	..... Passed
11. Flame Spread .....	ASTM-E84.....	..... Class A



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