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BULL-BOND®

Since 1967

Technical Data Sheet

MICRO-TOPPING

FINE RESURFACING CEMENTITIOUS COATING

PART 1: GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

BULL-BOND® MICRO-TOPPING™ is a blend of cement and fine graded sand. This product is designed to be a polymer modified cementitious coating that works mainly as a concrete surface renewal. Once mixed properly it has excellent consistency, with good mixing, placing and finishing properties. MICRO-TOPPING™ is designed to be mixed with one of the BULL-BOND® latex admixtures like SABAKRETE™ or CONCRYL™. The polymer-modified MICRO-TOPPING™ mix is ideal for roof resurfacing that ensures proper surface preparation prior to coating application, to repair irregular, deteriorated and delaminated concrete surfaces and for water-tight plastering of submerged concrete surfaces. The product is environmentally friendly with the use of local materials.

1.2 BASIC USES:

- Surface Profile Resurfacing for:
  - Concrete floors and walls
  - Concrete roofs
  - Asphaltic granulated roofing membranes
  - BUR surface recoveries
  - EPS board
- Cementitious Waterproof Coating for:
  - Water storage tanks
  - Pools
  - Fountains
  - Concrete roofs
  - Exterior walls
  - Basements
  - Tunnels

BULL-BOND® MICRO-TOPPING™ is suitable for interior, exterior and submerged conditions on vertical and horizontal surfaces for the previously mentioned applications.

1.3 SUITABLE SUBSTRATES:

- Concrete
  - Smooth
  - Porous
- CMU Blocks
- Cement Board
- Plaster
- EPS/XPS Foam Boards
- Gravel Embedded Tar
- Asphalt/Bitumen Residuals
- Urethane Foam Residuals

1.4 ADVANTAGES:

- Produces a smooth profile, necessary for elastomeric roof coating performance
- Ensures total and permanent adhesion to difficult substrates
- Improves surface runoff
- Provides an initial waterproof coating

1.5 LIMITATIONS:

- Excessive sun exposure should be avoided during application and for a minimum of 1 hour immediately after application.
- Avoid walking on installed surface for at least 24 hours after installation, depending upon temperature and humidity conditions.
- Never install over non-dimensionally stable materials.
- Overwatering can cause mixture to segregate resulting in uneven surface strengths. Surfaces with reduced strength must be removed mechanically.

PART 2: TECHNICAL DATA

2.1 PRODUCT CHARACTERISTICS:

PRODUCT CHARACTERISTICS	
BULLBOND® MICRO-TOPPING™	
Mixing Ratio	1-1.5 gal of mixing liquid per 50 lb. bag of MICRO-TOPPING Cementitious powder.
Bulk Density	115 lb/ft^3
Application Temp. Range	58°F to 90°F
Workable Time	45-60 minutes
Packaging	50 lb. bag
Storage	Cool, dry place and free of excessive humidity. Don't leave exposed to sun.
Shelf Life	Powder - 1 year if unopened

2.3 SUGGESTED MIXES:

SABAKRETE™ MICRO-TOPPING MIX			
COMPONENT	**QUANTITY**	**DILUTION PROPORTION**	**DILUTION DOSAGE**
SABAKRETE™	0.5 - 0.75 gal	1	1 - 1.5 gal
Water	0.5 - 0.75 gal	1	
Micro-Topping Powder	50 lb		
APPLICATION THICKNESS RANGE	**MIX YIELD**		
1/32" - 1/8"	0.50 ft³ / mix		
**Liquid dosage quantity depends on mix flowpreference and ambient temperature*			

CONCRYL™ MICRO-TOPPING MIX			
COMPONENT	**QUANTITY**	**DILUTION PROPORTION**	**DILUTION DOSAGE**
CONCRYL™	1 - 1.25 gal	2 - 3	≈1.5 gal
Water	0.5 - 0.25 gal	1	
Micro-Topping Powder	50 lb		
APPLICATION THICKNESS RANGE	**MIX YIELD**		
1/32" - 1/8"	0.50 ft³ / mix		
**Liquid dosage quantity depends on mix flowpreference and ambient temperature*			

	MICRO-TOPPING™ MIX	
	CONCRYL™	**SABAKRETE ™**
DESCRIPTION	ACRYLIC LATEX ADMIXTURE & BONDING ADHESIVE	SYNTHETIC RUBBER LATEX ADMIXTURE & BONDING ADHESIVE
CONDITIONS		
Vertical Interior	●	●
Horizontal Interior	●	●
Vertical Exterior	●	●
Horizontal Exterior	●	●
Submerged	○	●
APPLICATIONS		
Resurfacing Micro-Toppings	●	●
Water-Tight Plasters	●	●
Concrete Roof Leveling	○	●
Tank, Pool & Fountain Plastering	○	●
Aesthetic Resurfacing Mortars	●	
SUITABLE SUBSTRATES		
Smooth Concrete	●	●
Porous Concrete	●	●
Brick	●	●
CMU Block	●	●
Cement Board	●	●
Plaster	●	●
EPS / XPS Foam Boards	○	●
Steel and Galvanized Metal	○	●
Gravel Embeded Tar		●
Asphalt/Bitumen Residual		●

● Best
○ Better
◦ Good

2.4 MATERIAL PHYSICAL PROPERTIES:

MATERIAL PHYSICAL PROPERTIES		
PROPERTY	**METHOD**	**BULLBOND® MICRO-TOPPING™**
Compressive Strength	(ASTM C109)	~ 3,500 psi at 28 days
Flexural Strength	(ASTM C348)	~ 860 psi at 28 days
MIX YIELD		
0.50 ft^3		
Thickness (in)	Area (ft^2)	
1/8	45	
1/4	22	
3/8	14	
1/2	11	

PART 3: INSTRUCTIONS

3.1 SURFACE PREPARATION

• All substrates must be structurally sound, thoroughly clean and free of oil, wax, grease, dust, asphalt, existing patching materials or any other contaminant that might act as a bond breaker.
• Remove any loose material, delamination, deteriorated concrete, paint, sealer, mold, release agents or water-soluble materials. Clean the surface with high pressure water blasting.
• Test by sprinkling water on various areas of the substrate. If water penetrates, then a good bond can be achieved; if water beads, surface contaminants are present, and loss of adhesion may occur. Stubborn contaminants should be mechanically removed before installation. Concrete must be free of efflorescence and not subject to hydrostatic pressure.
• Smooth concrete surfaces must be mechanically abraded to ensure a good bond. Surface preparation work can be done by grinding, scrabble, or other appropriate mechanical methods to obtain a CSP profile of 1-4.
• Saturate surface with clean water and remove all standing water. Sub-

strate should be saturated surface dry (SSD) before applying MICRO-TOPPING™.
• Ambient temperature, surfaces and materials should be below 90°F. It is recommended to install the material during the freshest moments of the day, be it during the morning or afternoon. It is also recommended to use cold mixing water to reduce heat in the cementitious mix.

3.2 MIXING

1. Verify that mixing tools and containers are clean before mixing.
2. Always premix the BULL-BOND® latex admixture (SABAKRETE™ or CONCRYL™) concentrate to ensure that any material that may have settled during extended storage is well dispersed. Once the concentrate is homogenous, proceed with portioning for dilution with water.
3. Dilute SABAKRETE™ or CONCRYL™ according to the desired application as designated on their respective dilution ratio table or suggested mix table (section 2.3) to create properly proportioned admixtures.
**With an increase in latex content and an increase in application thickness more precautions have to be taken to ensure proper curing.*
4. First pour 3/4 of the required amount of the liquid component of the mix (dilution of latex admixture and water) on the mixing container.
5. Slowly add the MICRO-TOPPING powder to the poured liquids, while mixing with a heavy-duty electric drill and mixing paddle at 800 rpm.
6. Next add the remaining 1/4 of liquid component to achieve the desired consistency of the mix.
7. Thoroughly mix for 2 minutes to a lump free, homogenous consistency. Do not overmix. Overmixing can cause excessive air entrapment. Do not add more liquid than recommended, or the system will not perform as desired.
8. Let it rest for 1 minute and then mix for an additional minute.
**It is important to prepare enough material for the complete application to avoid the formation of cold joints or pour joints.*

3.3 APPLICATION

1. Saturate surface with clean water and remove all standing water. Substrate should be saturated surface dry (SSD) before applying MICRO-TOPPING Mix.
**If working over a difficult substrate like gravel embedded tar, asphalt/bitumen residuals or urethane foam residuals it is strongly recommended to apply a scrub-coat of a BONDING SLURRY Mix onto the saturated surface-dry (SSD) and properly prepared surface.*
2. While the substrate is still saturated surface-dry (SSD) or the scrub-coat is still wet/tacky, apply the MICRO-TOPPING Mix using a brush or squeegee at a thickness of 1/32"-1/8". Coat the substrate with the MICRO-TOPPING Mix with the purpose of leveling the surface profile and leaving a smooth finish. Do not apply over a dry substrate since it will absorb the liquid components from the cementitious mixture and consequently hinder the mix because of improper cement hydration and curing.

3.4 CURING

1. Protect from excessive heat and wind during the first 24 to 72 hours of curing. Alternatively use damp burlap, polyethylene sheeting or water-based curing compound with the purpose of retaining moisture. Excessive heat and/or wind could cause premature surface drying and result in mud cracking. Do not use solvent-based curing compounds.
2. Air cure cementitious mixes modified with SABAKRETE™ or CONCRYL™ for at least 5 to 7 days before total water immersion. Wait 3 to 5 days before the application of waterproofing coatings over SABAKRETE™ or CONCRYL™ modified cementitious surfaces.

3.5 CLEANUP

Immediately wash hands and tools promptly with water before material hardens. Cured material must be mechanically removed.

PART 4: PRECAUTIONS

MICRO-TOPPING™ contains Portland cement and sand aggregate. Avoid eye and skin contact. Mix in a well-ventilated area and avoid breathing powder or dust. KEEP OUT OF REACH OF CHILDREN. Carefully read and follow all cautions and warnings on product label.

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Check our website for the latest version of the Technical Data Sheet

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