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Since 1967

Technical Data Sheet

SELF-LEVELING MORTAR

LATEX-MODIFIED SELF-LEVELING CEMENTITIOUS MORTAR

PART 1: GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

BULL-BOND® SELF-LEVELING MORTAR is a blend of cement, fine graded sand and special additives designed to be mixed with BULL-BOND® latex admixture CONCRYL™. The polymer-modified 2K SELF-LEVELING MORTAR mix is ideal for leveling concrete roofs and floors. BULL-BOND® SELF-LEVELING MORTAR seeks its own level and produces a smooth, flat, hard surface; dries and hardens quickly without shrinking, cracking or spalling. When installed properly the BULL-BOND® SELF-LEVELING MORTAR system will have a strong and durable adhesion over the existing substrate.

1.2 BASIC USES:

- Roof leveling
- Floor leveling
- Resurfacing overlays
- Patching and repairing damaged or worn concrete surfaces

BULL-BOND® SELF-LEVELING MORTAR is capable of exterior and interior applications proper installation and curing SELF-LEVELING MORTAR provides a hard, durable substrate suitable for the application of BULL-BOND® coating systems or other floor coverings. Further more; it can be employed as a pedestrian wear surface overlay.

1.3 SUITABLE SUBSTRATES:

- Concrete
- Granulated Surfaces
- Mineral Asphalt surfaces
- Residual Tar

**The preferable substrate to apply the BULL-BOND® SELF-LEVELING MORTAR is over bare concrete. Good adhesion can be obtained over existing materials, but the final adhesion of the SELF-LEVELING MORTAR will depend on the adhesion level of the previously installed material.*

1.4 ADVANTAGES:

- Self-leveling 2K underlayment and overlay
- Latex-modified with CONCRYL™
- High strength
- Superior substrate adhesion
- Excellent water resistance
- Installs from 1/8" – 3/4" neat, and up to 2" with aggregate extension
- Exposed topping wear surface
- Resistant to Pedestrian and Light Commercial Traffic
- High Abrasion resistance
- High chemical resistance
- Excellent durability

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.
- Wait at least 3-5 days to allow proper curing of the SELF-LEVELING MORTAR before coating applications.

PART 2: TECHNICAL DATA

2.1 PRODUCT CHARACTERISTICS:

PRODUCT CHARACTERISTICS	
BULL-BOND® SELF-LEVELING MORTAR	
Mixing Ratio	0.75 gal of mixing liquid per 40 lb. bag of SELF-LEVELING MORTAR Cementitious powder.
Recommended Polymer	BULL-BOND® CONCRYL™
Bulk Density	129 lbs/ft³
Application Temp. Range	58°F to 95°F
Flowing Time (on pail)	10 minutes
Workable Time	3 minutes at 90°F
Packaging	40 lb. bag
Storage	Cool, dry place and free of excessive humidity. Don't leave exposed to sun or rain.
Shelf Life	Powder - 6 months if unopened

2.3 SUGGESTED MIXES:

CONCRYL™ SELF-LEVELING MORTAR MIX				
COMPONENT	QUANTITY	DILUTION PROPORTION	DILUTION MAXIMUM MIXING	
CONCRYL™	0.5 gal	2	0.75 gals	
Water	0.25 gal	1		
Self-Leveling Mortar Powder	40 lb			
APPLICATION	MIX YIELD			
THICKNESS RANGE	1/8" – 3/4"			
	0.45 ft³ / mix			

**Liquid dosage quantity depends on mix flow preference and ambient temperature*

2.4 MATERIAL PHYSICAL PROPERTIES:

MATERIAL PHYSICAL PROPERTIES		
PROPERTY	METHOD	BULL-BOND® Self Leveling Mortar
Compressive Strength	(ASTMC109)	~ 5,600 psi at 7 days ~ 6,220 psi at 14 days ~ 6,720 psi at 28 days
MIX YIELD		
0.45 ft ³ per bag		
Thickness (inches)	Area (ft ²)	
1/8	45	
1/4	22	
1/2	11	
3/4	7	
1	6	

PART 3: INSTRUCTIONS

3.1 SURFACE PREPARATION

- All substrates must be structurally sound, thoroughly clean and free of oil, wax, grease, dust, oils, existing patching materials or any other contaminant that might act as a bond breaker.
- Remove any loose material, paint, sealer, mold or water-soluble materials. Clean the surface with a water pressure hose. Remove all ponding water when finished.
- 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. Contaminants should be mechanically removed before installation. Concrete must be free of efflorescence and not subject to hydrostatic pressure. Concrete slabs should have a broomed or brushed finish to enhance the bond. Smooth concrete slabs must be mechanically abraded to ensure a good bond.
- Ambient temperature, surfaces and materials should be below 85°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 water to reduce heat in the cementitious mix.
- 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 of 2-4.

3.2 PRIMING

1. As a primer it is recommended to apply the BULL-BOND® CONCRYL™ neat at 150-200 ft²/gal on the concrete substrate. Apply evenly with spray tip, soft-bristle push broom or a paintbrush. Apply a thin even coat over all the substrate to be worked on.
2. Prior to installing the BULL-BOND® SELF-LEVELING MORTAR mix, brush or vacuum off puddles and excess primer.
3. Let it cure for 5-10 minutes or until the film is tacky.

*Any excess primer not removed will float to the surface of the SELF-LEVELING MORTAR. Do not allow the primer to dry, the SELF-LEVELING MORTAR mix must be applied while the primer is still tacky to avoid pinholes. If the primer dries, immediately apply more primer directly over the dried area to re-saturate the concrete.

3.3 MIXING

1. Verify that mixing tools and containers are clean before mixing.
2. Always premix the BULL-BOND® latex admixture 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 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 finish and curing.
4. First pour 3/4 of the required amount of the liquid component (dilution of latex admixture and water) on the mixing container.

5. Slowly add the BULL-BOND® SELF-LEVELING MORTAR 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.
8. Let it rest for 1 minute and then mix for an additional minute.

*Do not overmix. Overmixing can cause excessive air entrainment.

*Do not add more liquid than recommended, or the system will not perform as desired.

*It is important to prepare enough material for the complete leveling of the area with one constant application thus avoiding the formation of cold joints.

3.4 THICKNESS OF APPLICATION

BULL-BOND® SELF-LEVELING MORTAR can be installed up to a thickness of 3/4" neat; for deeper applications up to 2", proper aggregate extension is required. For aggregate extension follow the same mixing instructions as in section 3.3. After mixing to a lump free consistency slowly add 10-20 lb. of clean and dry 3/8" pea gravel and thoroughly mix for 2 minutes and until aggregate is completely coated. Let it rest for 1 minute and then mix for an additional minute.

*The addition of aggregate will reduce the workability of the product. If using wet pea gravel, reduce the amount of mixing water to avoid over watering.

3.5 APPLICATION

1. Immediately after mixing pour or pump the mixed material starting at the lowest point of the area to be leveled.
2. You can use a screed board to direct the material or spread it with a long-handled gauged spreader. SELF-LEVELING MORTAR will seek its own level.
3. Allow the product to set before finishing. To enhance mechanical bonding when using SELF-LEVELING MORTAR prior to the installation of a coating or membrane, it is recommended to immediately broadcast silica sand into the wet/uncured mix until refusal. THIS APPLICATION IMPROVES PROPER CURING AND PERFORMANCE.

3.6 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 for 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 for 3 to 5 days before the application of coatings or sealers on the BULL-BOND® SELF-LEVELING MORTAR.

*Although BULL-BOND® SELF-LEVELING MORTAR requires no special curing procedures, avoid applying this product if rain is expected within 6-8 hours and if temperatures above 85°F are present during the placement of the fresh product. As with any other cementitious material, the above conditions can alter the appearance and performance of the finished product.

3.7 CLEANUP

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

PART 4: PRECAUTIONS

BULL-BOND® SELF-LEVELING MORTAR contains Portland cement, sand aggregate and liquid latex. 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 and SDS.

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