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# Technical Data Sheet

## PRO LEVEL™ LATEX MODIFIED ROOF LEVELING SYSTEM

### 1. PRODUCT DESCRIPTION

BULL-BOND® PRO LEVEL™ is a latex modified, self-leveling, high resistance roof overlay system designed to level water ponding problems on concrete roofs and correct irregular substrates prior to the installation of waterproofing systems. PRO LEVEL™ seeks its own level and produces a smooth, flat, hard surface; dries and hardens quickly without shrinking, cracking or spalling. When installed properly the PRO LEVEL™ system will have a strong and durable adhesion over the existing substrate.

### 1.1 PRODUCT COMPONENTS:

PRO LEVEL™ is a ready to use cementitious repair kit that contains a 40 lb. Cementitious Bag, with a 64 oz. Latex Admixture and a 16 oz. Latex Primer included.



Component 1 of the PRO LEVEL™ system is a Latex Primer that prepares surfaces for the application of the overlay. It seals porous surfaces and improves the bond of the overlay.



Component 2 of the PRO LEVEL™ system is a Latex Admixture for the cementitious mix. This component will be mixed with Component 3; it will enhance its physical properties, increase durability and promote adhesion to substrates.



Component 3 of the PRO LEVEL™ system is a 40 lb. Cementitious Bag. This component is a Portland cement based mix specifically designed for this application.

### 1.2 BASIC USES:

- Roof leveling
- Resurfacing
- Patching and repairing damaged or worn surface
- Enhance slope for proper drainage
- Interior concrete leveling and patching before the installation of tiles.

The PRO LEVEL™ system is capable of exterior and interior applications and after proper installation and curing PRO LEVEL™ provides a hard, durable substrate suitable for the application of BULL-BOND® coating systems.

### 1.3 SUITABLE SUBSTRATES:

- Concrete
- Porous Concrete
- Residual Tar
- Granulated Coatings
- Mineral Surface Membranes

*\*The preferable substrate to apply the PRO LEVEL™ is over bare concrete. Good adhesion can be obtained over existing materials, but the final adhesion of the PRO LEVEL™ will depend on the adhesion level of the previously installed material.*

### 1.4 ADVANTAGES:

- Self-leveling
- Latex-modified
- High strength
- Superior substrate adhesion
- Excellent water resistance
- Installs from 1/8" – 3/4" neat, and up to 2" with aggregate extension
- Fast curing
- Excellent wettability
- Abrasion resistance
- High chemical resistance
- Excellent durability
- No additional products are required

## 2. INSTRUCTIONS

### 2.1 SUBSTRATE 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, 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.
- Repair all cracks on substrate with a polyurethane caulking. Please be advised that joints and cracks may be filled with caulking prior to installation of PRO LEVEL™, this filling will not eliminate the possibility of joints and cracks telegraphing. This means that while some joints and cracks may not telegraph through the caulking material and up to the PRO LEVEL™ overlay, cracks will telegraph in any area that exhibits movement or an area where dissimilar substrates meet. In this type of situation it is recommended to use a fiberglass mesh, contact BULL-BOND® for further instructions.
- If leveling over smooth cap sheet waterproofing membranes the application of a BULL-BOND® SABAKRETE™ latex modified bonding slurry is required, before the installation of the PRO LEVEL™ system. In this case, the installation of the PRO LEVEL™ must be done before the bonding slurry is fully cured.
- 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.

## 2.2 PRIMING

Pour the PRO LEVEL™ Latex Primer (Component 1) on the concrete and apply evenly with an exploded tip, soft-bristle push broom or a paintbrush. Do not use paint rollers, mops or spray equipment. Apply a thin even coat over all the substrate to be worked on. Prior to installing the PRO LEVEL™ cement mix, brush or vacuum off puddles and excess primer. 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 PRO LEVEL™ cement mix, potentially causing a softening of the topping surface. Do not allow the primer to dry. The PRO LEVEL™ cement mix must be applied while the primer is still wet to avoid pinholes. If the primer dries, immediately apply more primer directly over the dried area to re-saturate the concrete.*

## 2.3 MIXING

1. First pour the entire content of the 64 oz. PRO LEVEL™ Latex Admixture (Component 2) on the provided 5 gal pail.
2. Fill the same 64 oz. bottle with clean water up to the line provided (should be 3/5 of the bottle).
3. Slowly add the powder of the 40 lb. cementitious bag (Component 3), to the poured liquids, while mixing with a heavy-duty electric drill and mixing paddle at 800 rpm.
4. Thoroughly mix for 2 minutes to a lump free consistency.
5. Let it rest for 1 minute and then mix for an additional minute.

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

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## 2.4 THICKNESS OF APPLICATION

PRO LEVEL™ 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 2.3. After mixing to a lump free consistency slowly add 10-20 lb. of washed 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.*

## 2.5 APPLICATION

1. Immediately after mixing pour or pump the mixed material at the center of the ponded area.
2. You can use a screed board to direct the material or spread it with a long-handled gauged spreader. PRO LEVEL™ will seek its own level.
3. Allow the product to set before finishing. To provide mechanical bonding when using PRO LEVEL™ prior to the installation of a waterproofing membrane, it is recommended to immediately broadcast 16 grit silica sand or roofing granules into the wet/uncured PRO LEVEL™ mix until refusal. THIS APPLICATION IMPROVES PROPER CURING AND PERFORMANCE.

## 2.6 CURING

Although PRO LEVEL™ 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.

## 2.7 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 PRO LEVEL™ patch before application of the waterproof coating system.

## 3. PRECAUTIONS

PRO LEVEL™ 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.

#### 4. TECHNICAL DATA

TECHNICAL DATA CHART	
<b>Technical Properties:</b>	
Mixing Ratio	0.5 gal (64 oz.) PRO LEVEL Latex Admixture + 0.3 gal (36 oz.) of water per 40 lb. bag of PRO LEVEL Cementitious powder.
Bulk Density	129 lb/ft <sup>3</sup>
Application Temp. Range	55°F to 95°F
Flowing Time (on pail)	10 minutes
Workable Time (after application)	3 minutes at 90°F
Install Waterproofing System	3 days 3-5 days
<b>Physical Properties:</b>	
Compressive Strength (ASTM C109)	~5,600 psi at 7 days ~ 6,220 psi at 14 days ~ 6,720 psi at 28 days
Drying Shrinkage at 78°F (ASTM C 157)	~ 0.072% at 28 days
<b>Coverage Table:</b>	
Thickness (in)	Area (ft <sup>2</sup> )
1/8	45
1/4	22
1/2	11
3/4	7
1	6
<b>Packaging</b>	
40 lb. bag, 64 oz. bottle, 16 oz. bottle	
<b>Storage</b>	
Cool, dry place and free of excessive humidity. Don't leave exposed to sun.	
<b>Shelf Life</b>	
Powder - 1 year if unopened container in original	
Latex Liquids - 6 months if unopened	

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