Floorguard Products

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# POLYUREA BASECOAT

## PRODUCT OVERVIEW

Polyurea Basecoat is a high-performance, all-weather coating engineered for durability, flexibility, and superior adhesion. Offered in three cure speeds—Slow, Medium, and Fast—it gives applicators the ability to adjust to changing temperatures, humidity, and project conditions for optimal performance. This versatility ensures smooth application, consistent curing, and reliable results in cold, moderate, or hot environments. Designed for rapid return to service and long-term protection, Polyurea Basecoat provides a tough, seamless foundation ideal for a wide range of protective coating applications.Can be field pigmented using E-Poly universal colorants.

## KEY FEATURES

- Low VOC Formulation
- Low Odor
- Minimal Downtime
- Fast Dry Time
- Warm-Temp Workability & Cure
- Superior Impact Resistance
- Superior Tensile & Tear Strength
- Excellent Elongation
- Strong Adhesion
- Broadcast Compatible

## COLOR OPTIONS

CLEAR | MEDIUM GRAY | TAN

## APPLICATION CONSIDERATIONS

- Higher ambient, product, and substrate temps will decrease working time and dry time
- Slab on grade requires moisture barrier
- Not UV stable
- Not designed as a finish coat

## PHYSICAL CHARACTERISTICS

| | |
|---|---|
| **SOLIDS CONTENT** | 100% |
| **VOLUMETRIC MIX RATIO** | 2A:1B |
| **VISCOSITY** | 1,000 cps |
| **POT LIFE**<br>1.5 GAL MASS | Slow: 25-30 Minutes @ 70°F<br>Medium: 20-25 Minutes @ 70°F<br>Fast: 10-15 Minutes @ 70°F |
| **WORKING TIME** | Slow: 20-25 Minutes @ 70°F<br>Medium: 15-20 Minutes @ 70°F<br>Fast: 10-13 Minutes @ 70°F |
| **TACK FREE** | Slow: 3-4 Hours @ 70°F<br>Medium: 2-2.5 Hours @ 70°F<br>Fast: 1-1.5 Hours @ 70°F |
| **RECOAT WINDOW** | 2-12 Hours @ 75°F |
| **LIGHT FOOT TRAFFIC** | 3-8 Hours @ 75°F |
| **FULL CURE** | 2 Days |
| **APPLICATION TEMPERATURE** | 20°F - 90°F \| RH <85% |
| **COVERAGE RATE** | 170-200 ft²/gal @ 8-9 Mils WFT |
| **SHELF LIFE**<br>UNOPENED | 1 Year |
| **PACKAGING** | 3 Gallon Kit \| 15 Gallon Kit |

## TECHNICAL PROPERTIES

| | | |
|---|---|---|
| **TENSILE STRENGTH** | ASTM D638 | 1,950 psi |
| **TEAR STRENGTH** | ASTM D1004 | 2.1 lbf |
| **SHORE D HARDNESS** | ASTM D2240 | 84 |
| **FLEXIBILITY**<br>1/8" MANDREL | ASTM D522 | Pass |
| **ELONGATION** | ASTM D638 | 65% |
| **ADHESION** | ASTM D4541 | >400 psi \| Concrete Failure |

## CHEMICAL RESISTANCE

Refer to Floorguard Products Chemical Resistance Chart.

## REQUIREMENTS

- The substrate should have a compressive strength of at least 3,500 psi
- The substrate should have a Moisture Vapor Emission Rate (MVER) of less than 3 lbs per ASTM F1869 and a Relative Humidity (RH) below 80% per ASTM F2170. When using a Tramex concrete moisture meter, the moisture content should be under 4%
- The substrate should have a pH level in the range of 6 to 9.
- Concrete must be structurally sound and free of all contaminants and bond breakers.
- Concrete should be mechanically prepared and profiled to achieve a Concrete Surface Profile (CSP) between levels 2 and 4, in accordance with ICRI 310.2R
- Mask all perimeter areas to protect surfaces at coating terminations. Saw-cut and key all termination points as required.
- Ensure all depressions, divots, and cracks are properly profiled, cleaned of dust and contaminants, and repaired to prevent defects from showing through the coating.
- Preserve all dynamic joints, while static joints can be filled. When necessary, use dynamic joints as starting and ending points during the application process.
- Ambient and substrate temps should be above 50°F and a minimum of 5°F above Dew Point.
- Product temps should be between 70-80°F.
- Ambient relative humidity should not exceed 80% during coating application.

## PRECAUTIONS

- Refer to Safety Data Sheets (SDS) for safety precautions.
- Safety precautions must be followed during storage, handling, and use.
- Personal Protective Equipment (PPE) shall be worn at all times of the application process including but not limited to long sleeve shirts, safety glasses, nitrile gloves and properly fitted NIOSH respirators.
- All sources of ignition must be turned off, and the area should be properly and adequately ventilated during both the application and curing processes.
- The mixing area should be located on or near the project site and securely covered with plastic, cardboard, or a tarp to protect against drips and spills.
- Stage all materials, tools, and cleaning supplies in a shaded area—out of direct sunlight—within the mixing area before beginning the application process.
- Clean the mixing station and application tools after use with a VOC-exempt solvent. Always follow all legal, health, and safety guidelines when handling or storing solvents and materials, especially when working in confined spaces.
- Dispose of empty packaging and other waste in accordance with all applicable federal, state, provincial, and local regulations.

## MIXING PROCEDURE

1. Pre condition product to temperature between 70°-80°F for best results
2. Pre-Mix A-Component in its respective container using Jiffy mixer and drill at slow speeds for 30 seconds until thoroughly homogeneous
   - If field pigmenting clear using E-Poly Universal Colorants, add 8 oz pigment per gal (dark colors) or 10-12 oz pigment per gal (light colors) to A-Component and mix until color is uniform.
3. Pre-Mix B-Component in its respective container using clean Jiffy mixer and drill at slow speeds for 30 seconds or until thoroughly homogeneous.
4. Transfer A-component and B-component at a mix rate of 2A:1B by volume and mix for 2-3 minutes being sure to scrape sides of the bucket ensuring both components are thoroughly blended
   - Do not mix at high RPMs or air entrapment may occur
   - Do not pull mixing paddle in and out of the mix during process or air entrapment may occur

## COVERAGE RATES & WORKING TIMES

- Basecoat: 180 Ft² / Gal @ 8.9 Mils WFT

- Slow: 20-25 Minutes @ 70°F
- Medium: 15-20 Minutes @ 70°F
- Fast: 10-13 Minutes @ 70°F

- Surface porosity, temperatures, and application method will cause coverage rate to vary.
- Ambient temps & humidity, product and surface temps, airflow, mix time and cure speed selected affect overall working times

## APPLICATION PROCEDURE

1. Cut-in edges using a chip brush. Do not allow wet edges to stand more than 5 minutes ahead of application of main body of floor.
   - Mixed material should not remain in bucket
   - Be mindful of environmental variables and affects on estimated working time
2. Pour mixed material across the surface. Use 8-12 mil notched squeegee to gauge material across surface achieving desired thickness.
   - Do not flip bucket upside down and allow to sit on surface
   - Ensure you maintain a wet edge throughout application process
   - Follow recommended coverage rates and wet film thickness
3. Pre-wet 18” x 3/8” nap roller and back roll the surface wall to wall with 50% overlap. Back roll should be perpendicular to your first pass
   - Do not overwork material
   - Ensure back roll is always either wall to wall or joint to joint for a consistent finish
4. Allow coating to dry : Slow: 3-4 Hours @ 70°F
   Medium: 2-2.5 Hours @ 70°F
   Fast: 1-1.5 Hours @ 70°F
   - Do not force dry
   - Recoat: 3-14 Hours @ 75°F
   - If coating has no broadcast aggregate, surface will need to be abraded using 80-100 sanding screen prior to recoat after the 12 hour window
     - Light Traffic: 8 Hours @ 75°F
     - Heavy Traffic: 24 Hours @ 75°F
     - Equipment Traffic: 48 Hours @ 75°F

## MAINTENANCE

Inspect the installed floor by spot-cleaning and repairing any damaged or cracked areas as needed. To extend the life of the flooring system, implementing a daily maintenance program is strongly recommended to help ensure the floor remains safe for its intended use.

## TECHNICAL SUPPORT

For questions, please contact a Floorguard Products representative. Additional support materials are available from Floorguard Products. Visit floorguardproducts.com or reach out to us directly for further resources.

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