

## 5205 Polyaspartic Topcoat Sealer

### Installation Guide

#### PRODUCT DESCRIPTION

5205 Polyaspartic is a proprietary formula that is designed for speed. 5205 has a pot life up to 45 minutes in real world conditions yet it dries in 30 minutes or less after it is applied to concrete. 5205 will provide an extremely wet look to the concrete due to its ability to dive deep into the concrete surface. Use 5205 as a concrete Primer and Clear Topcoat Sealer when coating over plain or decorative concrete.

#### RECOMMENDED COVERAGE RATES

	Over Surfaces	First Coat	Second Coat
*Sold in 1.5 -Gallon Kit or 15 Gallon Bulk Kit	Flakes	125-200 SF/gal	175-250 SF/gal
	Metallic or Solid Color	250-275 SF/gal	225-275 SF/gal

#### SUBSTRATE REQUIREMENTS

##### **Flake Floors**

All flaked floors shall be clean, dry, and the flake should be fully adhered to the primer coat. Flake shall be free of dust, dirt, grease, contamination, surface laitance, and other potential bond-breaking substances that could impair adhesion. Substrate and ambient temperatures must be above 35o F during installation of coating. Relative humidity should not exceed 65% during installation of the coating. Environmental conditions must not be near the dew point during installation of the coating. Moisture Vapor Transmission of the substrate must not exceed 3lbs per 1000 SF per 24 hours. For high MVT substrates, consult with a Versatile representative for recommendations.

##### **Concrete Priming**

Concrete shall be structurally sound and stable. Concrete shall be free of dust, dirt, grease, contamination, surface laitance, and other potential bond-breaking substances that could impair adhesion. Concrete may need to be mechanically profiled and prepared by shot-blasting, grinding, or other means of scarification. All cracks, gouges, and other surface defects need to be addressed prior to coating installation. Substrate and ambient temperatures must be above 50°F (10°C) during installation. Relative humidity should not exceed 65% during installation of the coatings. Environmental conditions must not be near the dew point during installation of the coatings. Moisture vapor emission must be < 3lbs/24hr/1000 ft<sup>2</sup>.

**If moisture vapor emission is higher, contact a Versatile Building Products representative for an alternative coating system.**

#### ADVICE BEFORE INSTALLATION

**Cure time** is affected by environmental conditions. Do not force dry. High humidity and/or low temperatures can cause haziness and blushing in the coating. Material has a pot-life of 45 minutes based on a 1.5-gallons mass at 75o F.

**\*Warning: Large masses of mixed and/or heated material will have a shorter pot-life.**

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#### **Hot Weather Tips**

5205 has a shorter pot life in very hot conditions. Keep the material core temperature around 50-75o F if possible. Icing the buckets hours before doing job or placing in a cool environment the day before application can help lower the core temperature.

If instructions are not followed, excessive heat may cause outgassing, foaming, and hazing of 5205 where it has been applied too thick or where material settles into joints, etc. as well as a shorter pot life. To reduce the effects of outgassing (vapor coming out of the substrate), install when the temperature is dropping from the highest temperature of the day.

#### **Cold Weather Tips**

5205 will have higher viscosity or may gel up in very cold conditions. Keep the material core temperature around 50-75o F if possible. Using a pail warmer hours before doing the job or placing in a warm environment the day before application can help increase the core temperature which will make the material thinner and easier to work with. If instructions are not followed, materials may get thicker during mixing, and may lead to foaming and hazing of 5205 where it has been applied too thick (avoid puddling in low spots) or where material settles into joints.

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### INSTALLATION STEPS

#### **1. Surface Preparation**

There are many methods of surface preparation for various substrates many of which are adequate for this application consult a Versatile representative for alternatives to the procedure outlined below and methods of correcting problematic and contaminated substrates.

##### **Concrete-**

All concrete shall be clean and bare. Concrete shall be structurally sound and stable. Concrete shall be free of dust, dirt, grease contamination. Surface laitance and other potential upon breaking substances that could impair adhesion. All crack's gouges and other surface defects need to be addressed prior to coating installation. Substrate and Ambient temperatures must be above 35°F during the installation of coatings. Relative humidity should not exceed 65% during the installation of the coating. Environmental conditions must be near the dewpoint during the installation of coatings. Moisture Vapor Transmission of the substrate must not exceed 3 lbs per 1000 ft.<sup>2</sup> per 24 hours. For high MVT substrates consult with the Versatile representative for recommendation.

If the Concrete allows water to penetrate, then proceed to clean the surface with the V-100 Degreaser Cleaner using liberal amounts of oil stains and scrub until the water until no longer water beads up on on it

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If the Concrete is not porous, does not dark and when wet it must be mechanically profiled and prepared by shotblasting grinding water jetting or other means of scarification to reduce a concrete surface profile CSP between two and four according to international concrete repair institute ICRI guideline number 03732

### **2. Preparation**

- Shut off all sources of ignition prior to work, and throughout the Installation process.
- Supply auxiliary ventilation as necessary to produce a safe working environment.
- Use a NIOSH approved respirator capable of filtering organic vapors
- Because 5205 has such high gloss, be sure to remove dust from areas during application.

### **3. Mixing**

- Materials should be at room temperature 50 to 75°F.
- Mix 5205 Polyaspartic A component with 5205 Polyaspartic B Component at ratios listed on the label for 2 to 3 minutes using a jiffy type Mixing Blade at no less than 700 rpm.
- Transfer mixed material to a second Mixing Versatile and mix an additional minute to ensure that material along the sides of the first mixing vessel are properly incorporated into the mixture be sure to mix thoroughly.
- Use a brush, Lint Free roller, or squeegee (preferable Magic Trowel or 1/32" squeegee for solid color topcoat) for application.

*\* Caution: If you are not familiar with the product, Do Not Mix more than 1.5 gallons at a time. The more you mix the shorter your pot life will be. This is a 2-component product, be sure to mix thoroughly.*

### **5. Application**

#### *Over Flake*

- After mixing, pour a nice even consistent 4-5" wide ribbon across the floor surface.
- Use Magic Trowel squeegee to spread 5205 out evenly so the entire surface is coated evenly.
- Pour out additional ribbons on the surface as needed and make sure to keep a "Wet Edge" at all times.
- Walk back into the wet floor on spiked shoes to disperse any heave puddles of materials that are pooling.
- Keep a firm pressure on the trowel when spreading.
- Once 5205 is spread out evenly with the Magic Trowel squeegee, use an 18" x 3/8" Lint Free Roller to back roll the entire surface, keeping spread rate at 125-200 SF/gal. This will even out the gloss across the entire floor and should be done in the opposite direction you squeegee.

#### *Over Solid-Color or Metallic Floor*

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- After mixing, pour a nice even consistent 4-5" wide ribbon across the floor surface.
- Use 1/32" squeegee to spread 5205 out evenly so the entire surface is coated evenly.
- Pour out additional ribbons on the surface as needed and make sure to keep a "Wet Edge" at all times.
- Walk back into the wet floor on spiked shoes to disperse any heavy puddles of materials that are Pooling.
- Keep a firm pressure on the trowel when spreading.
- Once 5205 is spread out evenly with the 1/32" squeegee, use an 18" x 3/8" Lint Free Roller (de-lint it Before use for best results) to back roll the entire surface, keeping spread rate at 250-275 SF/gal. Do not over work the material and keep the back rolling to a minimum, the material has great leveling properties.  
Use the single back roll method to even out overlaps where there is too much material, and the lines are visible.

\* Caution: If applied too thick (less than 100 SF/gal), foaming or blushing on the surface may occur. If back-rolled too late or over rolled as the product is setting or tacky, it may cause micro bubbles in the coating due to the coating setting up and becoming too thick to release bubbles caused by excessive rolling.

#### **4. Clean-up**

- Immediately cleanup splatter marks and tools with MEK or Acetone. Clean hands and exposed skin with mild soap and water, and/or citrus based hand-cleaner.

#### **5. Cure Times**

- 5205 can typically accept light foot traffic in 1 hour.
- Re-coat within 1-2Hrs.
- Vehicular traffic with pneumatic tires in 72 hours.
- Full cure occurs in 5-7 days.
- Pilot lights and surrounding sources of ignition may be put back into service once solvent vapors have dissipated to a level below the lower explosion limit. Typically, this will take 6-10 hours after floor installation with adequate ventilation.

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#### **ADDITIONAL CAUTIONS AND RECOMENDATIONS**

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- Keep mixed material in pail to achieve maximum working time instead of pouring bands on the floor.
- Do not apply at less than 100 SF per gal or excessive moisture entrapment may occur in wet film which may cause hazing.
- Do not force dry.
- Mask all areas that need protection.
- Always wear protective clothing and equipment as required by OSHA and as necessary.
- Have all personnel who come in contact with liquids read The Versatile EPOXY, URETHANE, AND POLYASPARTIC



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2K SAFETY GUIDE and Material Safety Data Sheets before commencing work.

- Store material at 50-75o F
- 5205 is combustible, DO NOT USE torch or flame after applying these products.

#### TECHNICAL SERVICES

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- Technical services can be obtained by contacting Versatile directly at 714-829-2600.