

5108 Polyaspartic Topcoat Sealer

Installation Guide

PRODUCT DESCRIPTION

5108 is fast drying Polyaspartic Topcoat designed for use over concrete garage floor coatings and a wide range of other concrete floor coatings, overlays and stains. 5108 is 72% solids and allow film thickness to build in excess of standard systems with water clarity and mirror like smoothness and gloss. It has a lower viscosity that makes it very easy to apply while providing an even longer pot life and a faster cure when applied out onto the surface.

RECOMMENDED COVERAGE RATES

| | Over Surfaces | First Coat | Second Coat |
|--|-------------------------|----------------|----------------|
| *Sold in 2 -Gallon Kit or 10 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. Other Substrates Apply 5108 to the surface using a 1/16" notched squeegee to spread the material evenly over the area. Do a single back roll over the surface and allow the material to level. 5108 has great leveling properties and as a result, cross rolling is not recommended because it can introduce bubbles into the material that may not have time to burst before the topcoat sets up.

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 ft2.

5108 Polyaspartic Topcoat Sealer

Installation Guide

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 55 minutes based on a 2-gallons mass at 75o F.

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

Hot Weather Tips

5108 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 5108 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

5108 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 5108 where it has been applied too thick (avoid puddling in low spots) or where material settles into joints.

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

5108 Polyaspartic Topcoat Sealer

Installation Guide

substrate must not exceed 3 lbs per 1000 ft.² 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

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 5108 has such high gloss, be sure to remove dust from areas during application.
- Use a brush, Lint Free roller, or squeegee (preferable Magic Trowel or 1/16" squeegee for solid color topcoat) for application.

3. Mixing

- Materials should be at room temperature 50 to 75°F.
- Mix 5108 Polyaspartic A component with 5108 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.

*** Caution: If you are not familiar with the product, Do Not Mix more than 2 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 5108 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.

5108 Polyaspartic Topcoat Sealer

Installation Guide

- Once 5108 is spread out evenly with the Magic Trowel squeegee, use an 18" 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

- After mixing, pour a nice even consistent 4-5" wide ribbon across the floor surface.
- Use 1/16" squeegee to spread 5108 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 5108 is spread out evenly with the 1/16" squeegee, use an 18" 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 materials, 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

- 5108 can typically accept light foot traffic in 3-4 hours (plan on 3 hours for warmer days and longer for cooler days).
- Re-coat within 4-8 Hrs.
- 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.

ADDITIONAL CAUTIONS AND RECOMENDATIONS

- 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

5108 Polyaspartic Topcoat Sealer

Installation Guide

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 2K SAFETY GUIDE and Material Safety Data Sheets before commencing work.
- Store material at 50-75o F
- 5108 is combustible, DO NOT USE torch or flame after applying these products.

TECHNICAL SERVICES

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