5085 & 5085 SD
ULTRA-HIGH SOLIDS POLYASPARTIC TOPCOAT

PRODUCT DESCRIPTION

5085 and 5085 SD (slow dry) are 2-component, clear Ultra High Solids Polyaspartic Topcoats that exhibits great chemical and excellent wear resistance while providing a deep high gloss surface in a single application. 5085 is designed to provide an ultra-high build clear topcoat with only one coat while also protecting against wear and chemical attack. 5085 SD is designed to be a slower curing product that allows the applicator more time to apply the product.

MIX RATIO

1A:1B

** Sold in 2-Gallon Kit or 10-Gallon Bulk Kit*

RECOMMENDED COVERAGE RATES

Over Surfaces	*First Coat*	*Second Coat*
Flakes	150-175 SF/gal	175-200 SF/gal
Metallic or Solid Color	150-175 SF/gal	175-200 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 35ºF 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 VBP representative for recommendations.

Other Substrates

Apply 5085 or 5085 SD 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. 5085 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. 5085 SD may be better suited for applicators who have less experience. 5085 SD has more open time which will allow more micro bubbles to burst if the applicator has over rolled the area.

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 75ºF.
**Warning: Large masses of mixed and/or heated material will have a shorter pot-life.*

Hot Weather Tips

5085 & 5085 SD have a shorter pot life in very hot conditions. Keep the material core temperature around 50-75ºF 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 5085 & 5085 SD 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

5085 & 5085 SD will have higher viscosity or may gel up in very cold conditions. Keep the material core temperature around 50-75ºF 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 5085 & 5085 SD 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. Preparation

- Shut off all sources of ignition prior to work, and throughout the sealing process.
- Supply auxiliary ventilation as necessary to produce a safe working environment.
- Use a NIOSH approved respirator capable of filtering organic vapors.
- Because 5085 & 5085 SD have 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.

2. Mixing

- Material should be stored at room temperature (70-75°F) or below if in extreme hot conditions.
- Mix 5085 A-Component with 5085 B-Component at ratios listed on container for 2-3 minutes using a jiffy-type mixing blade at no less than 400rpm.
- Transfer mixed material to a second mixing vessel and mix an additional 30 seconds to ensure that material along the sides of the first mixing vessel have been properly incorporated into the mixture.

  * *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-componenst product, be sure to mix thoroughly.*

3. Application over flake

- After mixing, pour a nice even consistent 4-5" wide ribbon across the floor surface.
- Use Magic Trowel squeegee to spread 5085 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 time.
- 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 5085 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 150 SF/gal. This will even out the gloss across the entire floor and should be done in the opposite direction you squeegee.

  * *Caution: If applied too* ***thick*** *(less than 150 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.*

Application over solid color floor or metallic

- After mixing, pour a nice even consistent 4-5" wide ribbon across the floor surface.
- Use 1/16" squeegee to spread 5085 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 time.
- 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 5085 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 150 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 150 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

- 5085 can typically accept light foot traffic in 3-12 hours (plan on 3 hours for warmer days and longer for cooler days), vehicular traffic with pneumatic tires in 72 hours. 5085 SD can typically accept light foot traffic in 6 – 12 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 150 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.
- Read Safety Data Sheets before commencing work.
- Store material at 50-75ºF
- 5085 is combustible, DO NOT USE torch or flame after applying 5085
- Use 5085 SD over solid color floors if your installers are unfamiliar with 5085 application techniques. 5085 SD is more forgiving and will allow more time for micro bubbles to escape the film before setting up.

TECHNICAL SERVICES

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