RESUFLOR GRIND AND SEAL

The following information is to be used as a guideline for the installation of the Resuflor Grind and Seal flooring system. Contact the Sherwin-Williams Technical Service Department for assistance prior to application.

APPLICATION INFORMATION — SURFACE PREP PROFILE CSP 2

VOC MIXED	APPLICATION STEP	MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT	PACKAGING
0 g/L	Primer	Resuflor Glaze	2:1	300 sq ft/gal	3, 15 or 150 gal
0 g/L	Body Coat (optional)	Resuflor Glaze	2:1	300 sq ft/gal	3, 15 or 150 gal
0 g/L	Topcoat	Resutile AT	Premeasured Unit	~550-575 sq ft/unit	1.375 gal/unit

For additional topcoat options, contact your Sherwin-Williams Representative.

IMPORTANT!

Read these instructions carefully several days prior to starting your work. Seek answers to any questions you may have before you begin. Sherwin-Williams HPF maintains a technical staff that will be glad to answer your questions and give you advice pertaining to your particular installation.

SYSTEM OVERVIEW

Resuflor Grind and Seal is a 100% solids epoxy concrete floor sealing system designed to enhance and protect prepared concrete substrates without adding color or a design, allowing the look of sealed concrete to be showcased. Resuflor Grind and Seal consists of a clear Resuflor Glaze epoxy primer, optional clear Resuflor Glaze epoxy body coat, and finished with a clear, wear/UV resistant Resutile AT urethane topcoat.

NOTE: DO NOT apply at an ambient or surface temperature below 60°F or above 80°F

STORAGE CONDITIONS

Store all components in a cool, dry area with plenty of ventilation. Do not allow resins to freeze. Solidified (crystallized) resin must be heated above 100°F to properly melt crystals. The shelf life of all products used to make this system is 12 months.

SURFACE PREPARATION/JOINT GUIDELINES

Use a shot blaster or surface grinder to remove any damaged, contaminated, or unsightly concrete (grind to white concrete) and achieve a CSP of 2, follow by surface grinding with 80-150 grit to remove any witness lines from the shot blaster or grinder. Any scoring lines left behind will be visible through the clear coating. **Grind or abrade until the visual quality is representative of how the finished product is desired to appear.** Vacuum all dust and debris, and ensure the surface is clean, dry, and free of all contaminants before you begin applying the system. Always honor moving joints as part of the preparation step. Refer to the master Surface Preparation and Joint Guidelines Guide on our website for more information.

MIXING AREA

Select a convenient mix area as close as possible to the application area and protect the surface from spills by covering with a sheet of plastic and an absorbent layer of cardboard. Be generous with the amount of space allocated for this function. Do not mix this product in direct sunlight or when ambient temperatures exceed 90°F. Exposure to high temperatures will greatly reduce the working time of this product. **DO NOT MIX UNTIL READY FOR IMMEDIATE USE.**

APPLICATION

Resuflor Grind and Seal is applied as a primer (resin/hardener), optional body coat (resin/hardener), and a topcoat (resin/hardener). Resuflor Grind and Seal has a finished nominal thickness of 8-13 mils.

LABOR REQUIREMENTS - Best practices are to assign one person to each job – do not multi-task:

- 1 person mixing/running mixed pails
- 1 person squeegee
- 1 person cross-rolling

NOTE: Additional manpower will be required for complex installations requiring cut-in work or applications around drains.

PRIMING

EQUIPMENT LIST

- 5 gal mixing pails
- Mix and measure pails
- Solvent
- Tape
- 450 RPM high-speed/high-torque drill
- 5" Jiffler mixing blade
- 12" flat squeegee
- 3/8" nap roller
- Spiked shoes
- Rubber/nitrile gloves
- Safety glasses

Mark the area to be coated with tape. Pour 1 part Resuflor Glaze Hardener into a mixing pail then add 2 parts Resuflor Glaze Resin – when pouring from measuring containers, be sure to scrape the inside of the pails to use as much of the material as possible. Use the measuring pail to scrape the mix stick and never scrape the mix stick on the side of the mix pail. Mix for 2 minutes using a Jiffler-type mixer at 450 RPM. Apply a ribbon of mixed Resuflor Glaze material starting at the far side of the installation area and work towards an exit.

Wearing spiked shoes, use flat squeegee to evenly spread the material across the surface area at approximately 300 square feet per mixed gallon (5 mils), joining batches together along a wet edge. After spreading the Resuflor Glaze, follow by back-rolling and cross-rolling with a 3/8" nap roller.

NOTE: Resuflor Glaze "Regular" should be used for the primer and optional body coats (Resuflor Glaze Water Clear may be used with higher install temperatures) — Do not use "Fast" Hardeners as they will not bond properly, will yellow very quickly, and could produce pinholes.

BODY COAT (OPTIONAL)

EQUIPMENT LIST

- 5 gal mixing pails
- Mix and measure pails
- Solvent
- Tape
- 450 RPM high-speed/high-torque drill
- 5" Jiffler mixing blade
- 12" flat squeegee
- 3/8" nap roller
- Spiked shoes
- Rubber/nitrile gloves
- Safety glasses

Repeating the steps used for the primer application, pour 1 part Resuflor Glaze Hardener into a mixing pail then add 2 parts Resuflor Glaze Resin – when pouring from measuring containers, be sure to scrape the inside of the pails to use as much of the material as possible. Use the measuring pail to scrape the mix stick and never scrape the mix stick on the side of the mix pail. Mix for 2 minutes using a Jiffler-type mixer at 300–450 RPM. Apply a ribbon of mixed Resuflor Glaze material starting at the far side of the installation area and work towards an exit. Wearing spiked shoes, use flat squeegee to evenly spread the material across the surface area at approximately 300 square feet per mixed gallon (5 mils), joining batches together along a wet edge. After spreading the Resuflor Glaze, follow by back-rolling and cross-rolling with a 3/8" nap roller.

NOTE: Resuflor Glaze "Regular" should be used for the primer and optional body coats (Resuflor Glaze Water Clear may be used with higher install temperatures) — Do not use "Fast" Hardeners as they will not bond properly, will yellow very quickly, and could produce pinholes.

TOPCOAT

EQUIPMENT LIST

- 2 gal mixing pails
- 18" wide paint tray
- 18" long 3/8" nap roller
- 750 RPM high-torque drill
- 3" Jiffler blade
- Paint stir stick
- Spiked shoes
- Rubber/nitrile gloves
- Safety glasses

Resutile AT is typically applied using the dip and roll method with an 18" long 3/8" nap roller.

Pour 1 kit of Resutile AT Hardener into a 5 gallon pail and add 1 kit of Resutile AT Resin, mix using a 750 RPM drill with a 3" Jiffler blade for 30 seconds. If specified, slowly add Resutile AT Grit and continue mixing for an additional 1 minute. Pour a small amount into a paint tray that is large enough to accommodate an 18" roller.

Dip roller into filled paint tray and roll off excess. Apply two 8- to 10-foot-long paths left to right then right to left. Re-wet roller and use “W” shaped crosses and/or up and down passes. Roll material until uniform. A final cross-roll (use a dedicated person to cross-roll in order to avoid any roller lines) is necessary to even out roller lines and should be completed within 10 minutes of starting application.

NOTE: Occasionally re-mix Resutile AT in paint tray and mixing pail with a paint stir stick to prevent settling of the grit. This will aid in eliminating visible roller lines in the finished coating.

Resutile AT Kit Spread Rates	Standard	LH
Gloss Clear (w/grit)	575 square feet/kit	650 square feet/kit
Gloss Clear (no grit)	550 square feet/kit	625 square feet/kit
Satin Clear (w/grit)	775 square feet/kit	N/A
Satin Clear (no grit)	750 square feet/kit	N/A

NOTE: Do not apply thicker than 3-4 mils wet or leave excess material pooled on the floor as it may lead to blistering.

IMPORTANT: Application of Resutile AT is only recommended if the floor temperature and materials are between 60°F and 80°F. DO NOT APPLY if the ambient humidity is greater than 80% RH, standing moisture is present — The floor temp is less than 5°F above the dew point — and concrete in-situ (ASTM F2170) is above 75%.

CURING: Allow the topcoat to cure for 8-12 hours depending on temperature/relative humidity (curing is slower if RH is less than 30%). Use LH formula below 30% RH. Once cured, it is safe to return to foot traffic, return to general service after 24 hours, and will feature full chemical and abrasion resistance in 5-7 days at 70°F.

NOTE: Use Resuflor Solve or Xylene for clean-up of tools and equipment while material remains uncured

IMPORTANT!

Before using Sherwin-Williams High Performance Flooring products, read and understand their accompanying Safety Data Sheet.

STANDARD TERMS AND CONDITIONS OF SALE, INCLUDING STANDARD WARRANTY APPLY - VISIT **industrial.sherwin-williams.com/na/us/en/resin-flooring** FOR THE LATEST VERSION.

CAUTION! As with all chemical products, individuals may have different reactions to exposure to specific products. This is dependent upon many factors, including the individual's personal characteristics, the size of the installation, the ventilation available, the intensity of the exposure or the length of the exposure. Individuals may experience discomfort during the installation process of one product, but not another.

In some cases this is experienced as a skin irritation and in others it is experienced as an inhalant irritation. Typically, it disappears once the exposure is eliminated. In some cases people can become "sensitized" to a product and experience the discomfort every time there is exposure without Personal Protective Equipment ("PPE").

To protect yourself from various exposures or discomfort during the mixing and application of our products, we recommend covering exposed skin including using gloves, long sleeves, safety glasses and a respirator such as the 3M 8577 P95 Universal Disposable Carbon Respirator or a cartridge respirator.

Use only as directed. KEEP OUT OF REACH OF CHILDREN.

Do not reseal moisture-contaminated hardener. This will result in carbon dioxide generation or possible violent rupture of container.

THE SHERWIN-WILLIAMS DIFFERENCE

Sherwin-Williams High Performance Flooring delivers world-class industry subject matter expertise, unparalleled technical and specification service, and unmatched regional commercial team support to our customers around the globe.

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HPF-1530952-08 01/25