

RESUFLOOR™ SHOP FLOOR™ MR

The following information is to be used as a guideline for the installation of the Resufloor Shop Floor MR flooring system. Contact the Sherwin-Williams Technical Service Department for assistance prior to application.

APPLICATION INFORMATION — SURFACE PREP PROFILE CSP 3-4

VOC MIXED	APPLICATION STEP	MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT	PACKAGING
0 g/L	Primer	Resuprime™ MVP	2:1	100 sq ft/gal	3 or 15 gals
<50 g/L	Membrane	Resufloor EOC	2:1	80 sq ft/gal	3, 15 or 150 gals
0 g/L 0	Basecoat	Resufloor Glaze Flintshot Quartz	2:1 To Excess	100 sq ft/gal 500 lbs/1000 sq ft	3, 15 or 150 gals 50 lbs
0 g/L 0	Second Broadcast (optional)	Resufloor Glaze Flintshot Quartz	2:1 To Excess	90 sq ft/gal 500 lbs/1000 sq ft	3, 15 or 150 gals 50 lbs
0 g/L	Grout	Resufloor Glaze (pigmented)	2:1	100 sq ft/gal	3, 15 or 150 gals
<100 g/L	Topcoat	Resutite™ AT	Premeasured Units	See coverage below	1.375-1.75 gal/unit

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

Resutite AT Kit Spread Rates

	Standard	LH
Gloss Pigmented (w/grit)	700 square feet/kit	775 square feet/kit
Gloss Pigmented (no grit)	675 square feet/kit	750 square feet/kit
Satin Pigmented (w/grit)	850 square feet/kit	N/A
Satin Pigmented (no grit)	825 square feet/kit	N/A

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 High Performance Flooring maintains a technical staff that will be glad to answer your questions and give you advice pertaining to your particular installation. Large areas will require two or more mixers.

SYSTEM OVERVIEW

Resufloor Shop Floor MR is a 100% solids, solid color epoxy flooring system consisting of an optional Resufloor MVP primer/moisture barrier* (for use over green concrete), Resufloor EOC waterproofing membrane, single or double flintshot broadcast into pigmented Resufloor Glaze epoxy broadcast coats, a pigmented Resufloor Glaze epoxy grout coat, and finished with a recommended UV stable Resutite AT urethane topcoat. Resufloor Shop Floor MR delivers a seamless, non-slip pigmented flooring system designed for heavy duty use in mechanical rooms where waterproofing and working around drains is a constant concern.

*Resufloor MVP Primers include any available version of Resufloor MVP or MVP3 Primer.

NOTE: DO NOT apply at an ambient or surface temperature below 60°F or above 90°F

STORAGE CONDITIONS

Store all components in a cool, dry area with plenty of ventilation. Do not allow resins to freeze. Solidified (crystallized) hardener 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

Use a shot blaster or surface grinder to achieve a CSP of 3-4 (if the substrate is non-porous, a minimum CSP of 3 should be used). 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 and fill static 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 layer of cardboard and/or a sheet of plastic. 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

Resufloor Shop Floor MR is applied as an optional primer/moisture barrier (resin/hardener), waterproof membrane (resin/hardener), broadcast coats (resin/hardener/broadcast aggregate), grout coat (resin/hardener), and a topcoat (resin/hardener). Resufloor Shop Floor MR has a finished nominal thickness of 1/16"-1/8".

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
- 1 person broadcasting flintshot for every 25 linear feet of wet edge

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

PRIMING/MOISTURE BARRIER

(Optional – and best suited for use over green concrete)

Pour 1 part Resufloor MVP Hardener into a mixing pail then add 2 parts Resufloor MVP Resin** – if pouring from small containers (1 gal/5 gal), 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 Jiffier-type mixer at 300–450 rpm.

**If using another version of Resufloor MVP Primer, read the specific application instructions for that product.

Apply a ribbon of mixed Resufloor MVP Primer material starting at one side of the installation area and work towards an exit. Wearing spiked shoes, use a 3/16" V-notched squeegee to evenly spread the material across the surface area at approximately 100 square feet per mixed gallon (16 mils), joining batches together along a wet edge. After spreading the primer, follow by back-rolling and cross-rolling with a 3/8" nap roller.

NOTE: Outgassing may occur in very porous concrete. To address this, apply an additional coat of Resufloor MVP Primer mixed with an equal amount of No Sag #2. Apply using a flat squeegee at 250–350 square feet per mixed gallon. Do not use this method when priming with Resufloor MVP3 Primer.

WATERPROOFING MEMBRANE

Pour ½ gallon of Resufloor EOC Hardener into a mixing pail and add in the 1 gallon of Resufloor EOC Resin, making 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 Jiffier-type mixer at 300–450 rpm.

Apply a ribbon of mixed Resufloor EOC material starting at one side of the installation area and work towards an exit. Wearing spiked shoes, use a 1/4" V-notched squeegee to evenly spread the material across the surface area at approximately 80 square feet per mixed gallon (20 mils), joining batches together along a wet edge. After spreading the material, follow by back-rolling and cross-rolling with a 3/8" nap roller.

BROADCAST COAT

IMPORTANT: Resufloor Glaze pigmented resin must be pre-mixed for 3 minutes using a Jiffier-type mixer at 300–450 rpm prior to combining with hardener.

Pour 1/2 gallon of Resufloor Glaze Hardener into a mixing pail and add 1 gallon of pre-mixed Resufloor Glaze pigmented resin, making 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 3 minutes using a Jiffier-type mixer at 300–450 rpm.

Apply a ribbon of mixed Resufloor Glaze material starting at one side of the installation area and work towards an exit. Wearing spiked shoes, use a 3/16" V-notched squeegee to evenly spread the material across the surface area at approximately 100 square feet per mixed gallon (16 mils), joining batches together along a wet edge. After spreading the material, follow by back-rolling and cross-rolling with a 3/8" nap roller.

NOTE: For each application of material and before mixing, mark your batches to ensure you achieve your spread rate targets. This is best accomplished by dividing your target spread rate by the width of the area being coated (or your planned wet edge). Example: If your spread rate is 100 square feet and your area is 20 feet wide, you would make a mark every 5 feet (100 divided by 20 = 5).

BROADCAST

After the final cross-rolling, begin broadcasting into the broadcast coat. Place the flintshot into a pail that is easily carried around. While wearing spiked shoes, throw the aggregate UP into the air while consistently moving so it “rains down” into the broadcast coat (~1/2 lb. per square foot). Do not throw the aggregates into the coating with any force. Continue broadcasting until rejection (until the floor appears dry and has no shiny spots).

Typical aggregate usage rate for flintshot into 16 mils= ~1/2 lb. per square foot.

IMPORTANT: Do not broadcast the edge that will be joining the next section – leaving a wet edge of ~24" to merge with the next batch of mixed Resufloor Glaze. Do not walk on the aggregate, even with spiked shoes. Be sure to keep any impurities out of the sand such as broom bristles, debris, etc.

Allow 8-12 hours for curing, varying by temperature (warmer ambient temperature will cure at a faster rate). Once cured, sweep off the excess aggregate using a stiff, clean, dry broom with synthetic bristles and vacuum the area to remove excess aggregate.

SECOND BROADCAST COAT (OPTIONAL)

IMPORTANT: Resufloor Glaze pigmented resin must be pre-mixed for 3 minutes using a Jiffier-type mixer at 300–450 rpm prior to combining with hardener.

Pour 1/2 gallon of Resufloor Glaze Hardener into a mixing pail and add 1 gallon of pre-mixed Resufloor Glaze resin, making 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 3 minutes using a Jiffier-type mixer at 300–450 rpm.

Apply a ribbon of mixed Resufloor Glaze material starting at one side of the installation area and work towards an exit. Wearing spiked shoes, use a 3/16" V-notched squeegee to evenly spread the material across the surface area at approximately 100 square feet per mixed gallon (16 mils), joining batches together along a wet edge. After spreading the material, follow by back-rolling and cross-rolling with a 3/8" nap roller.

After the final cross-rolling, begin broadcasting into the broadcast coat. Place a portion of the flintshot into a pail that is easily carried around. While wearing spiked shoes, throw the aggregate UP into the air while consistently moving so it “rains down” into the broadcast coat (~1/2 lb. per square foot). Do not throw the aggregates into the coating with any force. Continue broadcasting until rejection (until the floor appears dry and has no shiny spots).

Typical aggregate usage rate for flintshot into 16 mils= ~1/2 lb. per square foot.

Allow 8-12 hours for curing, varying by temperature (warmer ambient temperature will cure at a faster rate). Once cured, sweep off the excess aggregate using a stiff, clean, dry broom with synthetic bristles and vacuum the area to remove excess aggregate.

GROUT COAT

IMPORTANT: Resufloor Glaze pigmented resin must be pre-mixed for 3 minutes using a Jiffier-type mixer at 300-450 rpm prior to combining with hardener

Pour 1/2 gallon of Resufloor Glaze Hardener into a mixing pail and add 1 gallon of pre-mixed Resufloor Glaze resin, making 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 3 minutes using a Jiffier-type mixer at 300–450 rpm.

Apply a ribbon of mixed Resufloor Glaze material starting at one side of the installation area and work towards an exit. Wearing spiked shoes, use a 3/16" V-notched squeegee to evenly spread the material across the surface area at approximately 100 square feet per mixed gallon (16 mils), joining batches together along a wet edge. After spreading the material, follow by back-rolling and cross-rolling with a 3/8" nap roller and allow to cure for 8-12 hours.

TOPCOAT (RECOMMENDED)

Resutile AT is typically applied using the dip and roll method with an 18" long 3/8" nap roller with a Wide Boy[™] or Big Ben[™] frame.

Pour 1 kit of Resutile AT Hardener and Resutile AT Colorant into a 5 gallon pail and mix using a 750 rpm drill with a 3" Jiffier blade for 30 seconds. Once hardener and colorant are pre-mixed, pour 1 kit of Resutile AT Resin and mix for an additional 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 continue application. Even out roller lines by using “W” shaped crosses and/or up and down passes. If not even, re-roll material up and down 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 or bucket with a paint stir stick to prevent settling of the grit or pigment.

Kit Spread Rates	Standard	LH
Gloss Pigmented (w/grit)	700 square feet/kit	775 square feet/kit
Gloss Pigmented (no grit)	675 square feet/kit	750 square feet/kit
Satin Pigmented (w/grit)	850 square feet/kit	N/A
Satin Pigmented (no grit)	825 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.

CAUTION: Application of Resutle AT is only recommended if the floor temperature and materials are between 60°F and 80°F. DO NOT APPLY if standing moisture is present, the floor temp is less than 5°F above the dew point, or the relative humidity is greater than 80%.

Allow the topcoat to cure for 8-12 hours, depending on temperature/relative humidity (curing is slower if RH is less than 30%). 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.

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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