

RESUFLOR™ MPE MULTI-PURPOSE EPOXY

PART A GP3760A01 PART B GP3760B01

Clear Hardener

PRODUCT INFORMATION

PRODUCT DESCRIPTION

RESUTILE MPE is a neutral, two-component, high solids epoxy. Applied at 3 mils (76.2 microns) for priming or up to 30 mils (762 microns) (1/32 inch) as a build coat. Slurry option is available (instructions at end of document) for thicker applications. Colors are optional.

Advantages:

• LEED[®] v4 – Indoor Air Quality credits available - meets requirements per CDPH-CA Section 01350 Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental chambers Version 1.2.

- · Seals concrete, protecting against dirt and spills
- Cleans easily, saving detergent, labor and water
- Complies with SCAQMD VOC regulations <100 g/L

TYPICAL USES

- · Stand-alone coating (a finish coat of urethane is recommended)
- · Seed coat for full broadcast flake and quartz floors
- · Resin for epoxy mortar system

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- Use as a concrete primer before applying another epoxy or urethane
- Use as a random crack filler when combined with thickening agents
- Level floor after mechanical prep

GENERAL INFORMATION

Colors: Use colorants at a rate of one unit per 3-gallon (11.34 litres) mix of Resuflor MPE. Standard Colorants--White, Yellow and Light Gray will not impart total hide. Use these colorants at a rate of two units per 3-gallon (11.34 litres) mix. Similar colorants also may not hide as well. Refer to Color Selection Guide or consult Sherwin-Williams Technical Support. (White and Light Gray are only recommended if topcoating with a non-yellowing urethane. Due to possible color inconsistencies, Battleship Gray and Medium Gray colorants are only recommended if topcoated.)

LIMITATIONS:

Colors: Multiple coats may be needed to achieve complete hide in lighter systems. UV/Light Stability: This product is not light stable and will yellow/amber over time. Contamination (Fisheyes): Products may fisheye if oil, silicones, mold release agents or other contaminants are present

ORDERING INFORMATION

Packaging:

Part A: 2 gallons (7.56L) in a 5 gallon (18.9L) pail, 5 gallon (18.9L) filled pails, 55 gallon (208L) filled drums Part B: 1 gallon (3.78L) containers, 5 gallon (18.9L) filled pails, 55 gallon (208L) filled drums

FORMATION				
PRODUCT CHARACTERISTICS				
Color:	Clear			
Volume Solids:	95.27%	, mixed (AS	STM D14	75)
Weight Solids:	95.45%	, mixed (AS	STM D14	75)
Mix Ratio:	2:1 by v	olume		
VOC (ASTM D3960):	ASTM D3960): 49 g/L ; 0.41 lb/gal			
Recommended Spreading Rate per coat:				
	Min	imum	Maxi	imum
Wet mils (microns)	3.0	(75)	30.0	(750)
~Coverage sq ft/gal (m²/L):	53	(1.3)	535	(13.1)
Drying Schedule:				
@	@	@	@	@
65°F/18°C	70°F/21°0	C 75°F/24°C	80°F/27°C	90°F/32°C

Tack Free:	18 hours	10.5 hours	9.5 hours	7.5 hours	5.5 hours
Dry Hard (able to be sanded):	24 hours	20 hours	16 hours	12 hours	8 hours
Foot Traffic:	24 hours	24 hours	24 hours	24 hours	24 hours
Recoat Window: Maximum: Up to 24 hours for all conditions					

Shelf Life:12 months, unopenedStore indoors at 65°F (18°C) to 90°F (32°C)

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results*
Abrasion Resistance	ASTM D4060, CS-17 wheel, 1000gm load, 1000 cycles	83.1 mg loss
Adhesion to Concrete	ASTM D7234	>480 psi (3.3 MPa) (max psi machine can register)
Coefficient of Friction	ASTM D2047	0.42
Compressive Strength	ASTM D695	13,500 psi (93.079 MPa)
Percent Elongation	ASTM D2370	5
Shore D Hardness	ASTM D2240	80-85 @ 0 sec ; 75-80 @ 15 sec
Tensile Strength	ASTM D2370	8,000 psi (55,158 MPa)

*results are based on conditions at 77°F (25°C)



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SURFACE PREPARATION

CHECK THE TEMPERATURE AND HUMIDITY: Floor temperature and materials should be between $65^{\circ}F(18^{\circ}C)$ and $85^{\circ}F(29^{\circ}C)$. Humidity must be less than 70% or the result may be a hazy appearance. DO NOT coat unless floor temperature is more than five degrees over the current, local dew point.

CHECK THE CONCRETE: Concrete must be structurally sound and free of curing membrane, paint or other sealer. If you suspect that the concrete has been previously sealed, call your Sherwin-Williams representative for further instructions.

CHECK FOR MOISTURE: Concrete must be dry before application of this floor coating material. Concrete moisture testing must occur. In-situ relative humidity testing is recommended. Readings must be below 75% relative internal concrete humidity. Test methods can be purchased at www.astm.org, see F2170, or follow manufacturer's instructions. If moisture issues are present, the use of a moisture mitigationsystem may be a consideration. Consult your Sherwin-Williams representative for further information / instructions.

NOTE: Although testing is critical, it is not a guarantee against future problems. This is especially true if there is no vapor barrier or the vapor barrier is not functioning properly and/or you suspect you may have concrete contamination from oils, chemical spills or excessive salts.

APPLICATION EQUIPMENT

- Protective clothing Jiffy® mixer blade
- Roller assembly (18") 80 grit sandpaper
 Spiked shoes
- 100 grit sandpaper • Slow speed drill (500 rpm or less)
- 60 grit sandpaper
 18-24" flat rubber squeegee
- 18-24" notched rubber squeegee
 3/8" medium nap roller (shed resistant)

ASSEMBLE EQUIPMENT: Due to the limited pot life of the material, all application equipment, etc. should be ready for immediate use. (Clean roller with tape to remove any residual lint.)

PREPARATION

Ensure concrete is free of dirt, grease, oil or other contaminants. Certain types of contaminant may interfere with coating adhesion and cause fisheyes or defect in the coating. Scrub with detergent, rinse with clean water, and allow to fully dry.

CONCRETE PREPARATION OPTIONS FOR THIN TO MEDIUM FILM APPLICATIONS (25 MILS (0.63 MM) MAXIMUM): *Diamond Grind:* (results of diamond grinding may vary depending on technique and the hardness of the concrete. Additional mils may be required). Sweep to remove large debris and vacuum to remove fine dust

Light Blast: Use magnetic broom to remove excess shot, sweep to remove large debris and vacuum to remove fine dust.

CONCRETE PREPARATION OPTIONS FOR THICK-FILM APPLICATIONS

Steel Shot Blast: Use magnetic broom to remove excess shot, sweep to remove large debris and vacuum to remove fine dust. Scarify: Sweep to remove large debris and vacuum to remove fine dust.

FILLING JOINTS: Depending on the preference of the facility owner, joints may or may not be filled. If the joints are filled, non-moving joints, i.e. contraction or control joints, can be hard filled with thickened epoxy or with a semi-rigid joint filler such as Resuflor 3580. Construction joints less than one inch wide may also be filled with Resuflor 3580. Isolation or expansion joints must be filled with a flexible material designed for this purpose. Coating applied over filled joints may crack if there is concrete movement.

APPLICATION INSTRUCTIONS (PRIMER COAT)

PRIMER COAT:

A thin coat of primer will wet out concrete, help seal off concrete pores and minimize outgassing bubbles. Apply a tight coat of primer with a clean, flexible squeegee. Backrolling is not recommended. There should be no mil build over the high spots of the concrete.

COVERAGE RATE will depend upon coating thickness. Much of this will soak into porous concrete. One gallon (3.78 litres) of Resuflor MPE will cover

535 ft2 (49.70 m2) @ 3 mils (0.08 mm) wet/dry film 400 ft2 (37.16 m2) @ 4 mils (0.10 mm) wet/dry film 321 ft2 (29.82 m2) @ 5 mils (0.13 mm) wet/dry film

PREMIX PART A using a Jiffy mixer blade and slow speed drill. (This is required for both 3-gallon (11.34 litres) and full-filled 5-gallon (18.9 litres) units.) For full-filled 5 gallon pails (18.9 litres), pour out 2 gallons (7.56 litres) into a measuring container. Then, pour the measured Part A into a mixing pail.

COLORS: Premix Sherwin-Williams Colorants to ensure uniform color. Colorant is added to the Part A and mixed using a Jiffy® mixer blade and slow speed drill. NOTE: When using colorant in the bulk units, add the colorant to the Part A that has been measured into the "mixing pail".

PREMIX ECO-MPE PART B by rapidly tipping the pail end-over-end several (approximately 6) times. ADD ECO-MPE PART B TO PART A (3 GALLONS 11.34 LITRES TOTAL MIX). For full-filled 5-gallon pails (18.9 litres), pour out 1 gallon (3.78 litres) Part B into a measuring container that is separate from the one used with the Part A. Then, add the measured Part B to the Part A already in the mixing pail. POTLIFE: Mix only enough material which can be and within the work time (time between the addition of Part B to can be applied within the work time (time between the addition of Part B to Part A and the completion of all application actions). Check the following chart for work times at various temperatures. For smaller quantities, use 2 parts A to 1 part B by volume.

APPROXI	MATE WOR	RK TIME (mi	inutes) - °F	(°C):
<u>65 (18.3)</u>	<u>70 (21.1)</u>	<u>75 (23.9)</u>	<u>80 (26.7)</u>	<u>90 (32.2)</u>
40	30	25	20	15

MIX FOR 2 MINUTES using a Jiffy mixer blade and slow speed drill. (Failure to do so could result in lower/diminished coating properties.)

IMMEDIATELY POUR ALL OF THE MIXED MATERIAL onto the floor in a single bead.

PUSH THE FLAT SQUEEGEE at an even speed with sufficient down pressure to apply the thinnest coat.

START THE SECOND AND REMAINING PASSES by pushing material parallel to the first stroke. Hold the bead of material near the center of the bar. NOTE: Resuflor MPE applied thin may "bridge" holes and cracks momentarily before soaking in-make sure the previously squeegeed area is overlapped (halfway). NOTE: The use of spiked shoes will allow freedom of movement on the wet floor.

TO REDUCE OUTGASSING BUBBLES, it is best to wait until the primer has set up enough to walk on before applying a build coat of Resultor MPE. The primer does not need to be sanded if coated within 24 hours at floor temperatures 65°F-90°F (18°C-32°C).

If primer is not coated within 24 hours, it must be sanded with 60 grit paper. We recommend thorough sanding with a swing-type buffer so that multiple scratch marks cause an obvious gloss loss on all areas (depressions will remain shiny), and the floor is uniformly dulled. The ability to see individual scratch marks is an indication that sanding is not adequate. Scrub with detergent and rinse with clean water before coating.



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Application Instructions (cont'd)	Application Instructions (cont'd)		
BUILD COAT (if required):	OPTIONAL SLURRY:		
COVERAGE RATE will depend upon required thickness. One gallon (3.78 litres) of Eco-MPE will cover: 160 ft2 (14.86 m2) @ 10 mils (0.25 mm) wet/dry film	NOTE: If a slurry application is desired, follow instructions below. A primer coat will reduce the risk of outgassing bubbles and is strongly recommended for porous concrete. See Application - Primer Coat section.		
107 ft2 (9.94 m2) @ 15 mils (0.38 mm) wet/dry film 80 ft2 (7.43 m2) @ 20 mils (0.51 mm) wet/dry film	COVERAGE RATE of Resuftor MPE Slurry will depend upon required thickness. One mix will cover approximately: 80 ft2 (7.4 m2) @ 70 mils (1.78 mm) wet/dry film 40 ft2 (3.7 m2) @ 125 mils (3.18 mm) wet/dry film PREMIX RESUFLOR MPE PART A using a Jiffy mixer blade. Pour out 1 gallon (3.78 litres) into a measuring container. Then, POUR THE MEASURED PART A INTO THE MIXING TOTE. Begin mixing.		
NOTE: Total Resultor MPE (prime and build coat) should not exceed 35 mils (0.89 mm).			
REPEAT STEPS used for mixing and spreading of the primer			
thickness applied. *1/16" notched squeegee to apply 10-15 mils (0.25-0.38 mm) *1/8" notched squeegee to apply 15-20 mils (0.38-0.51 mm)	PREMIX RESUFLOR MPE PART B. Pour out 0.50 gallons (1.89 litres) Part B into a measuring container that is separate from the one used with the Part A. Then, ADD THE MEASURED PART B TO THE PART A already in the mixing tote.		
*1/4" notched squeegee to apply more than 20 mils (0.51 mm) *These guidelines were arrived at by using new squeegees on smooth concrete with little applied pressure. The application rate is affected by worn squeegees, applied pressure and texture of the concrete.	MIX FOR 1 MINUTE or until thoroughly blended using a Jiffy mixer blade and slow speed drill.		
	POUR ONE GALLON (3.78 LITRES) OF #190 SILICA FLOUR into the mixing tote. Mix until uniform (approximately one minute). The resin needs to completely wet out the Part C.		
Immediately after the Resulfor MPE is applied and there is room to roll, a second person will BACKROLL THE MATERIAL with a 3/8" roller to a smooth and uniform appearance. NOTE: Get off the Resulfor MPE as soon as possible.	COLORS: ADD 1/2 pint of pigment per batch.		
	ADD ONE GALLON (3.78 LITRES) OF #60 MESH FINE SILICA SAND into the mixing tote. Mix until uniform (approximately one minute). The resin needs to completely wet out the sand.		
ALLOW COATING TO CURE 24 hours at 75°F (24°C) before opening to light traffic. Allow more time at low temperatures or for heavier traffic. Full coating properties take 14 days to develop.	POTLIFE AT 75°F: Mix only enough material, which can be raked, troweled and porcupine rolled in a 15-minute period.		
	POUR THE MIXED MATERIAL onto floor.		
SANDING REQUIRED: Resuflor MPE must be thoroughly sanded if applying Resutile	GAUGE RAKE/NOTCH TROWEL material over desired area.		
	USE HAND TROWELS to finish along edges and drains.		
4641 (see chart below). APPROXIMATE SAND TIME (hours) - $^{\circ}E$ ($^{\circ}C$).	USE PORCUPINE ROLLER to release any entrained air as well as work resins to the surface. This will help remove gauge rake marks and level material.		
APPROXIMATE SAND TIME (nours) - *F (*C): $65 (18.3)$ $70 (21.1)$ $75 (23.9)$ $80 (26.7)$ $90 (32.2)$ 24 20 16 12 8 Descrifter MDE result class he concluded if completing other Champing	ALLOW COATING TO DRY 24 HOURS at 75°F (24°C), 50% relative humidity before opening to light traffic. Allow more time at low temperatures, low humidity or for heavier traffic. Full coating		
Williams urethanes after 24 hours. Use 80 grit sandpaper except for Resutile 4641, WearGuard™-240 Gloss and Sherwin-Williams CRU–use 100 grit sandpaper. The use of more aggressive paper will introduce deep grooves that will not be covered by a single, thin coat of urethane; swirl marks will be particularly evident if the topcoat is glossy. We recommend thorough sanding with a swing- type buffer so that multiple scratch marks cause an obvious gloss loss on all areas (depressions will remain shiny), and the floor is uniformly dulled. The ability to see individual scratch marks is an indication that sanding is not adequate. Scrub with detergent and rinse with clean water before coating and tack rag to remove fine dust.	APPLICATION OF ADDITIONAL COATINGS: If Resuflor MPE is being topcoated with a Sherwin-Williams urethane except Resutile HPS 100 at floor temperatures of 65-90°F (18-32°C), it does not need to be sanded if applied within 24 hours. NOTE: This is a Sherwin-Williams solution only, DO NOT try this with competitive epoxies.		



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Chemical F	Resistanci	E	Maintenance
Reagent	1 Dav	7 Davs	Allow floor coating to cure at least one week before cleaning
Hydrochloric Acid 10%	E	E	by mechanical means (e.g., sweeper, scrubber, disc machine).
Hydrochloric Acid 30% (Muriatic)	E	G	Care: Proper maintenance will increase the life and help ma
Nitric Acid 10%	E	G	the appearance of your new Sherwin-Williams floor coating.
Phosphoric Acid 50%	F	G	Sweep and scrub your new coating regularly, as dirt and dust
Sulfuric Acid 37% (Battery Acid)	G	G	of your coating. Remove spills quickly as certain chemicals may
Acetic Acid 10%	G	F	stain and could possibly permanently damage the finish. Use
Citric Acid 10%	G	G	Any brush more abrasive than a soft rylon or white pad can
Oleic Acid	G	F	cause premature loss of gloss.
Ammonia Hydroxide 10%	E	E	
Sodium Hydroxide 50%	E	Е	Caution: Avoid scratching or gouging the surface. All floor
Ethylene Glycol (Antifreeze)	E	G	coatings will scratch if heavy objects are dragged across the surface. Do not drop heavy or pointed items on the floor as
Isopropyl Alcohol	F	Р	Inis may causing chipping or concrete popouls in the case of a weak can. Rubber tires can permanently stain the floor coating
Methanol	F	F	from plasticizer migration. Plexiglass® between the tire and the
D-Limonene	G	G	floor coating can prevent discoloration. Rubber burns from quick
JP-4 Jet Fuel	E	E	stops and starts can heat the coating to its softening
Gasoline	G	G	temperature, causing permanent marking.
Mineral Spirits	E	E	Repair: Repair douges or scratches or chip outs as soon as
Xylene	F	F	possible to prevent moisture or chemical contamination.
Methylene Chloride	Р	Р	
MEK	Р	Р	Τωτωο
PMA	F	F	IINTING
Ammonium Nitrate 20%	E	E	Only tint with HPF Universal Colorants. Do not tint with GIS
Brake Fluid	F	F	colorants. Use one pint of colorant per 3-gallon mix of Resuflor
Bleach	E	E	MPE for most colors, and two pints per 3-gallon mix of Resulton MPE for White Bright Vellow, Light Croy, and Betunda Bod
Motor Oil (SAE 30)	E	E	- I MPE for White, Bright Yellow, Light Gray, and Rolunda Red.
Skydrol® 500B	F	F	
Skydrol® LD4	F	F	
Sodium Chloride 20%	Е	E	
1% Tide® Laundry Soap	Е	E	
10% Trisodium Phosphate	E	E	SAFETY
ASTM D1308 Test Method 3.1.1	spot test, cover	ed. Results are	Refer to the SDS sheet before use.
sacca chi i day and i day. Obdui			g, p i abilistica continual data ana monaciono are oubject to change

based on 1-day and 7-day. Coating cured 2 weeks prior to testing.

- E Excellent (no adverse effect) Recommended
- G Good (limited adverse effect) Use for short-term
- exposure only F - Fair (moderate adverse effect) - Not recommended P - Poor (unsatisfactory) - Little or no resistance to
- chemical

*only adverse effect was staining

NOTE: Reduced chemical resistance and staining is possible in pigmented versions of the system

Pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and WARRANTY

without notice. Contact your Sherwin-Williams representative

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are

based upon tests conducted by or on behalf of The Sherwin-Williams Company.

Such information and recommendations set forth herein are subject to change and

for additional technical data and instructions.

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Application Bulletin.