Requests for Proposal – General Contractor to replace Front Apparatus Bay at 571 Washington Street, Coventry, RI 02816

PERFORMANCE BOND REQUIRED

INTENT AND GENERAL INFORMATION

The Coventry Fire District is seeking proposals from a Licensed and Insured General Contractor to perform necessary repairs as outlined in the scope of work at the FIRE STATION located at 571 WASHINGTON STREET, COVENTRY, RI 02816

The selected contractor shall be responsible for compliance with all federal, state, and local statutes and regulations.

TERMS

Proposers are required to complete a complete examination of the site as to work involved and of the difficulties likely to be encountered in the performance of work under this RFP. No pleas of ignorance of conditions that exist, or that may hereafter exist or of any conditions or difficulties that may be encountered in the execution of the work under this RFP as a result of failure to make the necessary examination and investigation, will be accepted as an excuse for failure to or omission on the part of the bidder to fulfill in every respect all the requirements, specifications, etc., nor will same be accepted as a basis for any claim for extra compensation. On site examinations are by appointment only.

SUBMISSION, DEADLINE AND QUESTIONS

The District will accept written proposals only and will not accept oral proposals, or proposals received by telephone, FAX machine, telegraph, or email. Proposals must be prepared simply and economically, providing a straightforward, concise description of the Proposer's ability to meet all components of this RFP.

Proposals must be received at 571 Washington Street, Coventry RI 02816 no later than 1:00 pm on Friday, May 3, 2024. Proposals may be hand delivered to the above location during the office hours of Monday through Wednesday 8am to 4pm, Thursday 11am to 7pm and Friday 8am to 1pm

The District reserves the right to reject any and all proposals, and to waive formalities, procedural requirements and/or minor technical inconsistencies, and to delete any requirements and/or specifications as deemed to be in the District's best interest. Proposals failing to meet all requirements contained in this RFP may be rejected.

All questions concerning this RFP must be addressed to the following point of contact:

Captain Edward Shannon

571 Washington St Coventry, Rhode Island 02816

Phone: (401) 871-9495

Fax: (401) 826-0832

Email: eshannon@Coventryfiredistrict.org

Coventry Fire District

Anthony Fire Station

Incorporated 1889

Captain Edward J. Shannon
571 Washington Street
Coventry, Rhode Island 02816
Phone: 401-821-3141 ex. 106
Cell: 401-871-9495
Email: Eshannon@Coventryfiredistrict.org

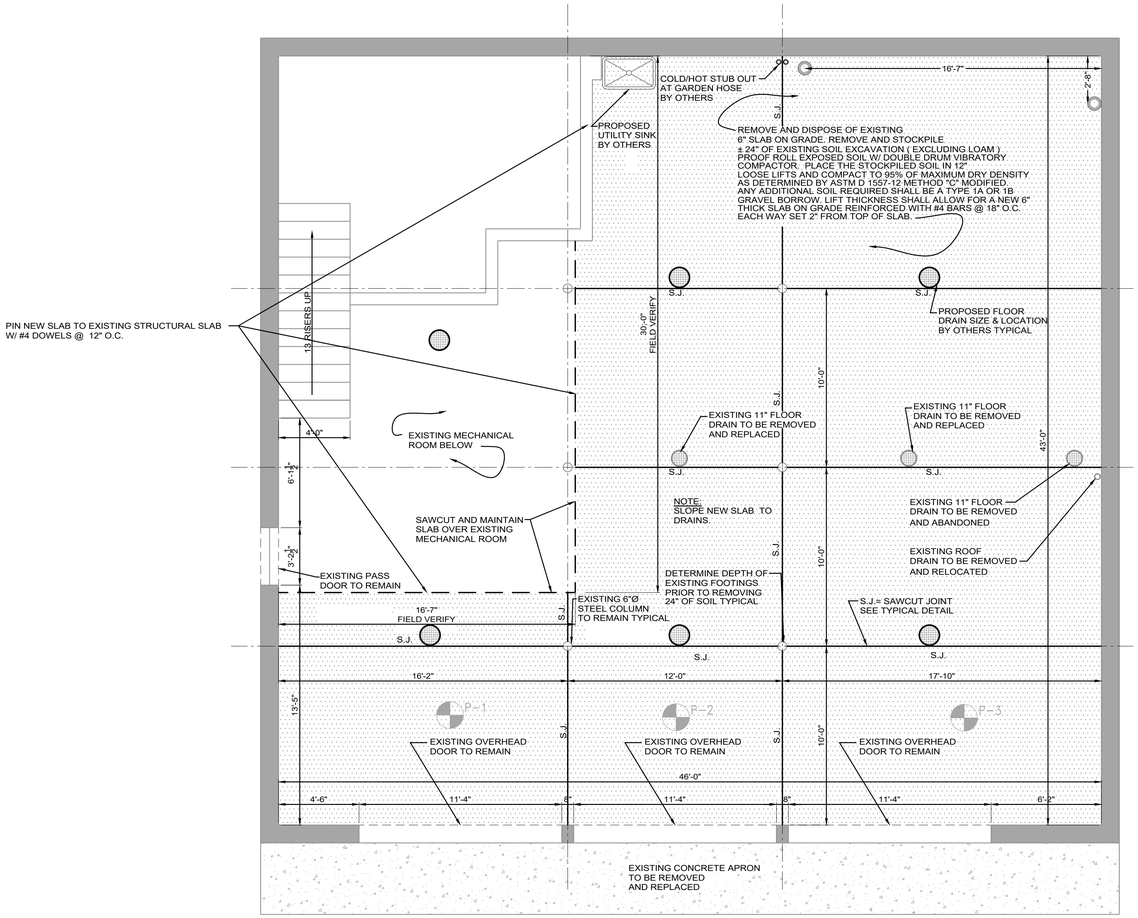
SCOPE of WORK

- Remove and dispose of the concrete floor per SAB Engineering drawing dated 12/28/23.
- Excavate and dispose of 24 inches of existing soil.
- Supply and Install new 24 inches of gravel and compaction per the engineering drawings.
- Install new circular floor drains and piping. The connection should tie into the connection that exists in the existing basement. All new piping is required under the slab.
- New drain piping for a new utility sink. Sink is by others. Hot and cold water stub out by others.
- Install rebar and concrete per engineered drawings.
- All compaction and concrete testing by owner.
- Garage doors remain.
- Permit as required.
- Prevailing wage is not required. Payment and performance bonds are required.

Alternate No 1 - Supply and install a new epoxy floor over the entire floor including the existing section that remains. The specification from Sherwin Williams is attached for reference or equal.

Alternate No. 2 - Install a new low voltage radiant floor system underneath the new concrete slab. The radiant system shall be supplied and designed by Green Wave Distribution. The contact is Skip Mauro -401-602-0108.

Unit Prices - Additional soil to be removed and replaced at the owner discretion beyond the two feet. The unit price should per cubic yard.



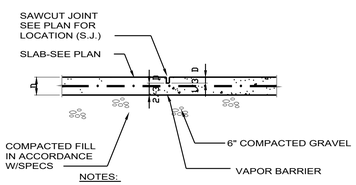
KEY PLAN

1/4"=1'-0"

NORTH

GENERAL NOTES

1. CONCRETE- f'c 4000 PSI AT 28 DAYS.
2. STEEL-Fy - 60,000 PSI NEW BILLETT STEEL FREE FROM EXCESSIVE RUST.

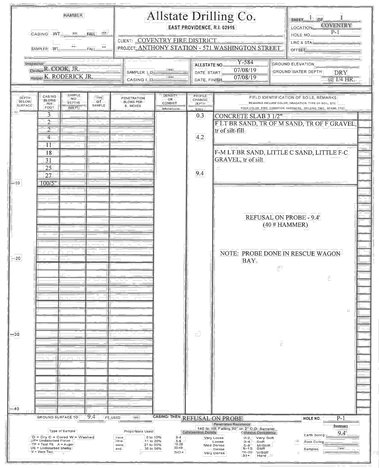


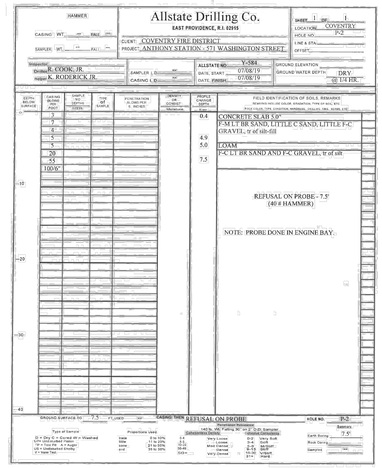
NOTES:

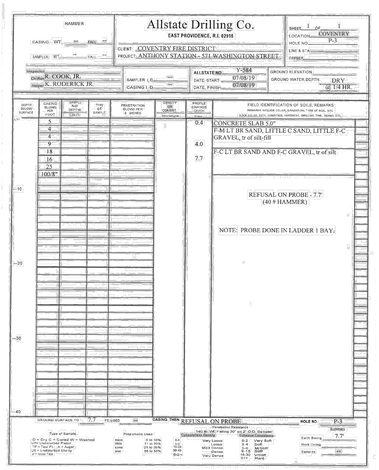
1. G.C. MAY, AT HIS OPTION, SUBSTITUTE PREMOLDED JOINT STRIP INSTALLED TO 25% OF THE SLAB DEPTH.
2. ALL JOINTS SHALL BE STRAIGHT.

TYPICAL SAWCUT JOINT

3/4"=1'-0"







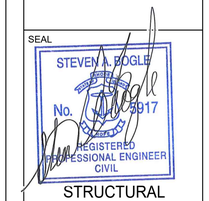
No.	Revisions	Date

GENERAL NOTES

ENGINEER

SAB
Engineering
150 Amaral Street
Riverside, Rhode Island 02915
508-496-9564
sab@sabengineering.net

SEAL



STRUCTURAL

DATE : 12/28/23

PROJECT NO.:

DRAWN BY: KMR

SCALE : VARIES

CHECKED BY: SAB

PROJECT:
COVENTRY FIRE DISTRICT
ANTHONY FIRE STATION
SLAB REPAIR

571 WASHINGTON ST
COVENTRY, RI

TITLE
PROPOSED CONCRETE SLAB REPLACEMENT

CLIENT

SHEET NO.
S-1

HAMMER

CASING: WT. -- FALL --

SAMPLER: WT. -- FALL --

Allstate Drilling Co.

EAST PROVIDENCE, R.I. 02915

CLIENT: COVENTRY FIRE DISTRICT

PROJECT: ANTHONY STATION - 571 WASHINGTON STREET

SHEET 1 OF 1

LOCATION COVENTRY

HOLE NO P-1

LINE & STA

OFFSET

Inspector

Driller R. COOK, JR.

Helper K. RODERICK JR.

SAMPLER I. D --

CASING I. D --

ALLSTATE NO Y-584

DATE, START 07/08/19

DATE, FINISH 07/08/19

GROUND ELEVATION

GROUND WATER DEPTH DRY @ 1/4 HR.

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE NO DEPTHS ELEV. FT.	TYPE of SAMPLE	PENETRATION BLOWS PER 6 INCHES	DENSITY OR CONSIST Moisture	PROFILE CHANGE DEPTH Elev.	FIELD IDENTIFICATION OF SOILS, REMARKS REMARKS INCLUDE COLOR, GRADATION, TYPE OF SOIL, ETC ROCK COLOR, TYPE, CONDITION, HARDNESS, DRILLING TIME, SEAMS, ETC.
0	3					0.3	CONCRETE SLAB 3 1/2"
	2						F LT BR SAND, TR OF M SAND, TR OF F GRAVEL, tr of silt-fill
	2						
	4					4.2	
	11						F-M LT BR SAND, LITTLE C SAND, LITTLE F-C GRAVEL, tr of silt
	18						
	31						
	25						
	27					9.4	
10	100/5"						REFUSAL ON PROBE - 9.4' (40 # HAMMER) NOTE: PROBE DONE IN RESCUE WAGON BAY.
20							
30							
40							

GROUND SURFACE TO 9.4 FT. USED --

CASING: THEN REFUSAL ON PROBE

HOLE NO. P-1

Type of Sample

D = Dry C = Cored W = Washed
UP= Undisturbed Piston
TP = Test Pit A = Auger
US = Undisturbed Shelby
V = Vane Test

Proportions Used

trace	0 to 10%
little	11 to 20%
some	21 to 35%
and	36 to 50%

Penetration Resistance
140 lb. Wt. Falling 30" on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
	0-4	0-2	Very Soft
Very Loose	5-9	3-4	Soft
Loose	10-29	5-8	M/Stiff
Med Dense	30-49	9-15	Stiff
Dense	50+	16-30	V/Stiff
Very Dense		31+	Hard

Summary

Earth Boring 9.4'

Rock Coring

Samples --

HAMMER

CASING: WT. -- FALL --

SAMPLER: WT. -- FALL --

Allstate Drilling Co.

EAST PROVIDENCE, R.I. 02915

CLIENT: COVENTRY FIRE DISTRICT

PROJECT: ANTHONY STATION - 571 WASHINGTON STREET

SHEET 1 OF 1

LOCATION COVENTRY

HOLE NO P-2

LINE & STA

OFFSET

Inspector

Driller R. COOK, JR.

Helper K. RODERICK JR.

SAMPLER I. D --

CASING I. D --

ALLSTATE NO. Y-584

DATE, START 07/08/19

DATE, FINISH 07/08/19

GROUND ELEVATION

GROUND WATER DEPTH DRY @ 1/4 HR.

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE NO DEPTHS ELEV. FT.	TYPE of SAMPLE	PENETRATION BLOWS PER 6 INCHES	DENSITY OR CONSIST Molsture	PROFILE CHANGE DEPTH Elev.	FIELD IDENTIFICATION OF SOILS, REMARKS REMARKS INCLUDE COLOR, GRADATION, TYPE OF SOIL, ETC ROCK COLOR, TYPE, CONDITION, HARDNESS, DRILLING TIME, SEAMS, ETC.
0	3					0.4	CONCRETE SLAB 5.0"
	7						F-M LT BR SAND, LITTLE C SAND, LITTLE F-C GRAVEL, tr of silt-fill
	4						
	5					4.9	
	5					5.0	LOAM
	20						F-C LT BR SAND AND F-C GRAVEL, tr of silt
	55					7.5	
	100/6"						
10							REFUSAL ON PROBE - 7.5' (40 # HAMMER)
20							NOTE: PROBE DONE IN ENGINE BAY.
30							
40							

GROUND SURFACE TO 7.5 FT. USED -- CASING: THEN REFUSAL ON PROBE HOLE NO. P-2

Type of Sample

D = Dry C = Cored W = Washed
UP= Undisturbed Piston
TP = Test Pit A = Auger
US = Undisturbed Shelby
V = Vane Test

Proportions Used

trace	0 to 10%
little	11 to 20%
some	21 to 35%
and	36 to 50%

Penetration Resistance
140 lb. Wt. Falling 30" on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
Very Loose	0-4	0-2	Very Soft
Loose	5-9	3-4	Soft
Med Dense	10-29	5-8	M/Stiff
Dense	30-49	9-15	Stiff
Very Dense	50+	16-30	V/Stiff
		31+	Hard

Summary

Earth Boring 7.5'

Rock Coring

Samples --

HAMMER

CASING: WT. -- FALL --

SAMPLER: WT. -- FALL --

Allstate Drilling Co.

EAST PROVIDENCE, R.I. 02915

CLIENT: COVENTRY FIRE DISTRICT

PROJECT: ANTHONY STATION - 571 WASHINGTON STREET

SHEET 1 OF 1

LOCATION COVENTRY

HOLE NO P-3

LINE & STA

OFFSET

Inspector

Driller R. COOK, JR.

Helper K. RODERICK JR.

SAMPLER I. D --

CASING I. D --

ALLSTATE NO Y-584

DATE, START 07/08/19

DATE, FINISH 07/08/19

GROUND ELEVATION

GROUND WATER DEPTH DRY @ 1/4 HR.

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE NO DEPTHS ELEV. FT.	TYPE of SAMPLE	PENETRATION BLOWS PER 6 INCHES	DENSITY OR CONSIST Moisture	PROFILE CHANGE DEPTH Elev.	FIELD IDENTIFICATION OF SOILS, REMARKS REMARKS INCLUDE COLOR, GRADATION, TYPE OF SOIL, ETC ROCK COLOR, TYPE, CONDITION, HARDNESS, DRILLING TIME, SEAMS, ETC.
0	5					0.4	CONCRETE SLAB 5.0"
	4						F-M LT BR SAND, LITTLE C SAND, LITTLE F-C GRAVEL, tr of silt-fill
	4					4.0	
	9						F-C LT BR SAND AND F-C GRAVEL, tr of silt
	18					7.7	
	16						
	25						
	100/8"						
10							REFUSAL ON PROBE - 7.7' (40 # HAMMER)
							NOTE: PROBE DONE IN LADDER 1 BAY.
20							
30							
40							

GROUND SURFACE TO 7.7 FT. USED --

CASING: THEN REFUSAL ON PROBE

HOLE NO. P-3

Type of Sample

D = Dry C = Cored W = Washed
UP= Undisturbed Piston
TP = Test Pit A = Auger
US = Undisturbed Shelby
V = Vane Test

Proportions Used

trace	0 to 10%
little	11 to 20%
some	21 to 35%
and	36 to 50%

Penetration Resistance
140 lb. Wt. Falling 30" on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	V/Stiff
		31+	Hard

Summary

Earth Boring 7.7'

Rock Coring

Samples --

SHERWIN WILLIAMS | HIGH PERFORMANCE FLOORING

Submittal Documents

Coventry RI Fire Station

Presented By:
Sincerely,

Paul Russo

High Performance Flooring and Terrazzo

NACE CIP #73169

SSPC CCI II #124729

Mobile 339-221-8133

Massachusetts and Rhode Island

September 19, 2023

SHERWIN WILLIAMS® | HIGH PERFORMANCE FLOORING

Submittal Documents

Project: Coventry RI Fire Station

Dear COVENTRY FIRE STATION :

Thank you for considering Sherwin-Williams products for the Coventry RI Fire Station project. Included in this package is the Sherwin-Williams submittal for the above referenced project.

Should you require assistance or have any questions or concerns, please contact me at 339-221-8133 or e-mail me at paul.russo@sherwin.com.

Sincerely,

Paul Russo
Sherwin-Williams

paul.russo@sherwin.com

096723

Concrete Floor - *Nominal Thickness 3/16"*

Urethane Concrete: Fastop SLX w/sand 5310 broadcast to excess
Notes: 45 sqft per kit

Grout Coat : Resuflor 3746
Notes: 80-100 sqft per gallon

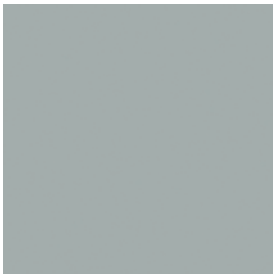
Topcoat: Resutile 4640 HTS
Notes: 500 sqft per gallon

SHERWIN WILLIAMS® | HIGH PERFORMANCE FLOORING

COLOR CARD

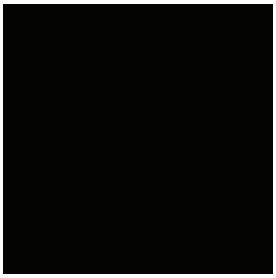
STANDARD COLORS

We offer a wide range of flooring systems for virtually any industrial, commercial or institutional application — from warehouses to transportation garages to food service operations. Our systems are designed to minimize your downtime while giving you the performance you demand. But specifying the right color can be as important as selecting the appropriate coating. Color can improve employee morale, enhance your image, increase productivity and contribute to the safety of your employees. Sherwin-Williams strives to provide the products you need in the color you require. In addition to the standard colors identified here, custom colors are also available.



Canada Gray
(51)

Light Gray
(52)



Black
(61)

Sandy Beige
(78)

Rich Green
(30)

Regal Blue
(70)

Rotunda Red
(65)

White
(59)

Bright Yellow
(68)

Steel Gray
(54)

Charcoal
(53)

Tile Red
(74)

Computerized custom color matching available upon request.

This reproduction approximates the actual color. Factors such as the type of product, degree of gloss, texture, size and shape of area, lighting, heat or method of application may cause color variance. Contact your Sherwin-Williams representative for details.

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.

United States & Canada
sherwin-williams.com/resin-flooring
coatings@sherwin.com
866-540-1299

High Performance Flooring

FASTOP™ SLX 3.0
SELF-LEVELING SLURRY BROADCAST URETHANE MORTAR

PART A	GP4110A01	CLEAR
PART B	GP4110B01	HARDENER
PART C	GP5124C01	AGGREGATE

Revised: May 28, 2022

PRODUCT INFORMATION

PRODUCT DESCRIPTION

FASTOP SLX 3.0 is a solvent free, low odor, slurry-broadcast applied, self-leveling flooring system. It is specially formulated for areas where thermal shock, impact and chemical attack are issues. It allows moisture to move through it at a safe rate. System thickness can vary from 1/8" (3.0 mm) for a neat system to 3/16" (4.8 mm) when broadcast with choice of media.

Advantages:

- CA 01350 Air Quality Compliant
- ADA Compliant
- LEED Credits Available
- Meets FDA, USDA & CFIA Standards
- VOC Compliant/Low Odor
- Thermal Shock Resistant
- Heat Resistant to 235°F (113°C)
- Contains Antimicrobial Additive
- No Topcoat Required
- Tolerates Dampness
- High Chemical & Abrasion Resistance
- Can be applied to 7 to 14 day old concrete

TYPICAL USES

Fastop SLX 3.0 may be used as a part of the XXX moisture mitigation system (contact your Sherwin-Williams Representative for details) and is suited for commercial, industrial and institutional applications, such as:

- Kitchens/Fryer Areas
- Vehicle Service Areas
- Food Processing Plants
- Breweries, Wineries & Dairies
- Walk-In Coolers & Freezers
- Bottling Facilities
- Laboratories
- Suitable for Indoor & Outdoor use
- Chemical Processing
- Sanitation & Wash-down Areas

LIMITATIONS

Fastop SLX 3.0 is not to be applied in temperatures below 45°F (7°C) or above 85°F (29°C), or when relative humidity is greater than 85%. Apply only to dry, properly prepared, uncoated, reinforced concrete floor slabs that have a moisture content of less than 10%. Do not apply if air temperature and/or surface temperature are at or below dew point. During application, protect substrate from exposure to water leakage or condensation from pipes. Do not feather-edge, do not hand-mix material and do not apply to cracked or unsound substrates. Product is for horizontal use on dry concrete surfaces only.

ORDERING INFORMATION

Packaging:
Part A: ~0.83 gallons (3.14L) in a 1 gallon (3.78L) can
Part B: ~0.77 gallons (2.91L) in a 1 gallon (3.78L) can
Part C: 23.96 lbs bag

PRODUCT CHARACTERISTICS

Color:	Grey, Tile Red, Neutral and custom colors
Mix Ratio:	1A:1B:1C by unit
VOC (EPA Method 24):	0 g/L ; 0 lb/gal

Recommended Spreading Rate per coat:

Coverage:
Apply Fastop SLX 3.0 at 50 SF per kit for 100 mils broadcasted to a nominal 3/16" (4 m2 per kit for 2.5 mm, broadcasted to a nominal 4.5mm) or 45 SF per kit for 1/8" broadcasted to a nominal 3/16" (3.25 m2 per kit for 3.0 mm, broadcasted to a nominal 4.5 mm).

Drying Schedule:

@ 70°F (21°C)
50% RH

To Touch:	8-10 hours
Foot Traffic:	12-16 hours
Full Service	24-48 hours

NOTE: Cooler temperatures require longer cure time. See XXX for more information.

Shelf Life:	12 months, unopened Store indoors at 45°F (7°C) to 85°F (29°C)
Flash Point:	230°F (110°C)
Clean Up:	MEK

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060	40 mg loss
Bond Strength	ASTM D4541	>400 psi
Co-Efficient of Friction	ASTM D2047	Passes ADA recommendations
Co-Efficient of Thermal Expansion	ASTM C531	$1.1x10^{-5}$ in/in/°F
Compressive Strength	ASTM C579	9,000 psi
Flammability	ASTM E648	Class I
Flexural Strength	ASTM C790	5,100 psi
Hardness, Shore D	ASTM D2240	85
Impact Resistance	ASTM D2794	>160 in lbs.
Indoor Air Quality	CA 01350	Compliant
Resistance to Fungi Growth	ASTM G21	Passes
Service Temperature	Lab Test	-100°F to 235°F
Tensile Strength	ASTM D638	4,200 psi
Water Absorption	ASTM C413	0.04%
Workable Life*	1 Mixed Kit	15 minutes

*After blending the components, immediately empty from mixing bucket onto the floor

continued on back

High Performance Flooring

FASTOP™ SLX 3.0
SELF-LEVELING SLURRY BROADCAST URETHANE MORTAR

PART A	GP4110A01	CLEAR
PART B	GP4110B01	HARDENER
PART C	GP5124C01	AGGREGATE

Revised: May 28, 2022

PRODUCT INFORMATION

SURFACE PREPARATION

Mechanically prepare concrete surface using shot-blaster, diamond grinder or other approved method. Ensure that all surface contaminants are removed. Determine that concrete is sound, with appropriate compressive strength. A Schmidt hammer can be used for this purpose. If concrete has strength of less than 3,000 psi, replace concrete before installing Fastop SLX 3.0. Fastop SLX 3.0 is not intended for use over existing coatings.

Expansion Joints: In addition to standard slab expansion joint construction, place new joints wherever Fastop SLX 3.0 is adjacent to dissimilar materials. Isolate areas subject to movement, vibration, thermal stress, load-bearing columns, and vessel sealing rings. Rout-out cracks and fill with XXX or XXX prior to floor system installation. Treat very large cracks as expansion joints and fill with XXX (see tech data for details).

Coving: Prime the area to receive a cove with XXX and seed using XXX sand. This is a wet on wet application, proceed with cove. For Fastop SLX 3.0 cove, mix 1 complete kit of Fastop SLX 3.0 with two 50 lb. bags of XXX sand. This mix will cover 83 LF of 6” cove or 125 LF of 4” cove (25.3 meters of 10cm cove and 38.1 meters of 15cm cove).

APPLICATION INSTRUCTIONS

Primer: Priming is usually not required. However, if concrete is very porous, or if this product is going to be used neat (without a broadcast) primer is required. Apply primer at 5 mils to 10 mils (127 microns to 254 microns). See XXX Technical Data Sheet and your Sherwin-Williams Representative for details.

Fastop SLX 3.0 Mortar: Combine Fastop SLX 3.0 Component A and Component B. Blend together with a “mudd mixer” for 30 to 60 seconds. Add Part C (dry material) to A and B and mix again for 60 seconds making sure aggregate is thoroughly wetted out. Scrape down sides and bottom of container with a flat or straight edge trowel to assure complete mixing, then immediately dump mix onto floor for application. Be sure to MIX FULL KITS. As temperature will affect mixing, mix when air temperature is between 50°F and 70°F (10°C to 21°C).

Note: Flash setting may occur if material remains in bucket too long (10 minutes is max.) or if left in a heap on floor.

Note: Best results are achieved when floor to be coated is divided into areas of 8 LF to10 LF of wet edge per mechanic. Begin working away from or alongside a wall. Trowel a small area and measure thickness. Use this initial area as a standard and proceed.

Application: Pour material onto the floor and spread to the desired thickness using a screed rake or trowel. Spread newly mixed batch across the transition of the previously applied materials before it begins to set. Immediately loop roll or spike roll. Ensure that the surface is level, and then proceed with broadcasting media to rejection while Fastop SLX 3.0 is wet. Use 40/100 mesh silica sand, color quartz or vinyl chips. For aggregates, figure 1/2 lb. per SF (2.4 kg/m2) and for the vinyl chips, figure 1 lb. per 9 SF (.55kg/m2). Let broadcast media fall vertically, DO NOT broadcast up to the transition line of new mixes, stay 2 to 3 feet beyond the wet edge. Allow aggregate surface to cure, remove excess by sweeping or vacuuming until surface is dust free.

CHEMICAL RESISTANCE OF MORTAR

Reagent	Results
Hydrochloric Acid 37%	R
Hydrofluoric Acid 4%	R
Hydrofluoric Acid 6%	R
Nitric Acid 30%	R
Phosphoric Acid 85%	R
Sulfuric Acid 39%	R
Sulfuric Acid 45%	R
Acetic Acid 10%	R
Acetic Acid 60%	L
Acetic Acid, Glacial 100%	L
Acetic Anhydride 98%	L
Citric Acid 40%	R
Formic Acid 10%	R
Lactic Acid 85%	R
Dibutylamine 100%	R
Ammonium Hydroxide 30%	R
Potassium Hydroxide 50%	R
Sodium Hydroxide 50%	R
Ammonium Chloride (sat'd)	R
Ammonium Suphate (sat'd)	R
Ammonium Nitrate 50%	R
Ammonium Aqueous 30%	R
Zinc Chloride 50%	R
Ferric Chloride 50%	R
Hydrogen Peroxide 3%	R
Potassium Carbonate (sat'd)	R
Potassium Chloride (sat'd)	R
Sodium Carbonate (sat'd)	R
Sodium Chloride (sat'd)	R
Sodium Nitrate (sat'd)	R
Sodium Sulphate (sat'd)	R
Sodium Hydro Chlorite 10%	R
Diacetone Alcohol 100%	R
Acetone 100%	L
Benzyl Alcohol 100%	R
n-Butyl Alcohol	R
Ethyl Alcohol 100%	R
Glycol Ether Acetone 100%	R
Hexane 100%	R

Key:

R - Resistant. Appropriate for long term spills and secondary containment.

L - Limited Resistance. Appropriate for splashing and spills that are promptly cleaned up.

F - Not Recommended.

High Performance Flooring

FASTOP™ SLX 3.0
SELF-LEVELING SLURRY BROADCAST URETHANE MORTAR

PART A	GP4110A01	CLEAR
PART B	GP4110B01	HARDENER
PART C	GP5124C01	AGGREGATE

Revised: May 28, 2022

PRODUCT INFORMATION

APPLICATION INSTRUCTIONS (CONT'D)

Topcoats: There are many topcoat options available; however the use of epoxy finishes should be avoided wherever thermal shock or hot oil will be present. Consult your Sherwin-Williams Representative for details.

Cure Time: The chemical curing of Fastop SLX 3.0 is affected by temperature. At 70°F (21°C) curing temperature, expect to walk on the floor in 12 hours, with full traffic after 24 hours. At 45°F (7°C) curing temperature, allowing foot traffic may take 48 hours or longer; therefore, it is imperative that air and substrate temperatures be kept above 70°F (21°C) for best cure.

Notes:
XXX – Add up to 4 ounces per kit to shorten the cure time. The amount of catalyst added will be based on the temperature & speed of cure desired. Catalyst will shorten the pot life. Contact your Sherwin-Williams Representative for details.

MAINTENANCE

Fastop SLX 3.0 floors can be maintained by using a stiff mechanical brush and/or hot pressure washer or steam cleaner. Surfactant-type detergents or degreasers may be used. However, avoid products containing Phenol, as this may damage color. Though Fastop SLX 3.0 is highly chemical resistant, a test patch is recommended prior to using any harsh cleaners.

CLEANUP

Clean up mixing and application equipment immediately after use with MEK. Observe all fire and health precautions when handling or storing solvents.

SAFETY

Refer to the SDS sheet before use.

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DISCLAIMER

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WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

CHEMICAL RESISTANCE OF MORTAR (CONT'D)

Reagent	Results
Isooctane 100%	R
2-Propanol	R
Methyl Alcohol 100%	R
Methylene Chloride 100%	L
Mineral Spirits 100%	R
Pentane 100%	R
Petroleum Ether 100%	R
Boric Acid 100%	R
Muriatic Acid 80%	R
Ethylene Glycol 100%	R
Copper Sulfate (in solution)	R
Benzoic Acid 100%	R
Diesel Fuel 100%	R
Stearic Acid	R
Amyl Acetone	R
Fatty Acid 100%	R
Toluene 100%	R
Xylene 100%	R
Antifreeze 100%	R
Glycol Ether PM 100%	R
Transmission Fluid 100%	R
Freon 100%	R
Glycerin 96%	R
Oleic Acid	R
100 Solvent 100%	R
Kerosene 100%	R
Mineral Oil 100%	R
Brake Fluid 100%	R
Sugar Solution 100%	R
Motor Oil 100%	R
Water	R
MEK & MIBK	L

Key:

R - Resistant. Appropriate for long term spills and secondary containment.

L - Limited Resistance. Appropriate for splashing and spills that are promptly cleaned up.

F - Not Recommended.

SHERWIN WILLIAMS | HIGH PERFORMANCE FLOORING

RESUFLOR™ 3746
HIGH PERFORMANCE EPOXY

PART A	GP3746	SERIES
PART A	GP8746	WITH ANTIMICROBIAL AGENT
PART B	GP3746B01	HARDENER
PART B	GP3746B02	FAST CURE HARDENER

Revised: December 9, 2022

PRODUCT INFORMATION

PRODUCT DESCRIPTION

RESUFLOR 3746 High Performance Epoxy is a two-component, recoatable epoxy and binder resin. It may be used directly over primed substrates, or as a gloss seal coat over decorative slurry and mortar systems. Resuflor 3746 is extremely hard wearing, chemical, impact and abrasion resistant.

ADVANTAGES

- Impact and abrasion resistant
- Durable, easy to clean
- Chemical resistant
- Suitable for use in USDA inspected facilities
- Acceptable for use in Canadian Food Processing facilities, categories: D2 (confirm acceptance of specific part numbers/rexes with your Sherwin-Williams representative)
- Available with an antimicrobial agent (GP8746 series)
- Tint bases can be tinted using Maxitoner @ 50% tint strength - see Tinting section on next page for details

TYPICAL USES

RESUFLOR 3746 High Performance Epoxy should be used in areas where maintenance of a high performance, aesthetically appealing and chemical resistant epoxy system is required. Resuflor 3746 is suited for use in clean rooms, laboratories, workshops, and light assembly areas.

LIMITATIONS

- Slab on grade requires vapor/moisture barrier
- Substrate must be structurally sound, dry and free of bond inhibiting contaminants
- During installation and initial cure cycle substrate and ambient air temperature must be at a minimum of 50°F (10°C). Substrate temperature must be at least 5°F (3ºC) above the dew point (for lower temperature installation contact your Sherwin-Williams representative).
- Maximum dry surface temperature not to exceed 160°F (71°C)
- Strictly adhere to published coverage rates
- Apply clear at only 10-15 mils (250-375 microns) maximum per coat

SURFACE PREPARATION

Proper inspection and preparation of the substrate to receive resinous material is critical. Read and follow the “Instructions for Concrete Surface Preparation” (Form G-1) for complete details.

PRODUCT CHARACTERISTICS

Finish:	Gloss
Color:	Clear, Standard Colors Wide range of colors possible Tintable: W01 (white tint base) and T04 (ultra deep tint base) See page 2 for additional tint details.
Volume Solids:	99%, mixed
Weight Solids:	99%, mixed
Mix Ratio:	2:1
VOC (EPA Method 24):	<100 g/L; 0.83 lbs/gal, mixed

PRODUCT CHARACTERISTICS (CONT'D)

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns):	**10.0** (250)	**30.0** (750)
~Coverage sq ft/gal (m^2/L):	**53** (1.3)	**159** (3.9)

Drying Schedule @ 10.0 mils (250 microns) wet:

	@ 55ºF (13ºC)	@ 72°F(22°C) 50% RH	@ 95°F(35°C)
Standard Hardener:			
To touch:	16-24 hours	6-12 hours	4-8 hours
To recoat:			
minimum	24 hours	8 hours	6 hours
maximum	48 hours	24 hours	24 hours
Foot traffic:	48 hours	24 hours	18 hours
Heavy traffic:	96 hours	72 hours	60 hours
Full cure:	7 days	7 days	7 days
Fast Cure Hardener:			
To touch:		3-4 hours	
To recoat:			
minimum		6	
maximum		12	
Foot traffic:		10-12 hours	
Heavy traffic:		24 hours	
Full cure:		7 days	

If maximum recoat time is exceeded, abrade surface before recoating.

Drying time is temperature, humidity, and film thickness dependent.

Pot Life (Standard) gallon mass	60 minutes	40 minutes	20 minutes
Pot Life (Fast Cure) gallon mass		25 minutes	

Shelf Life:
Part A: 18 months, unopened
Part B (Standard): 12 months, unopened
Part B (Fast Cure): 12 months, unopened
Store indoors at 40°F (4.5°C) to 100°F (38°C)

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles	76 mg loss
Adhesion	ACI 503R	300 psi, concrete failure
Flammability		Self-extinguishing over concrete
Flexural Strength	ASTM D 790	~12,400 psi
Hardness, Shore D	ASTM D 2240	77
Impact Resistance	MIL-D-3134J	Direct: 160 in-lb Reverse: 20 in-lb
***Surface Burning**	ASTME84/ NFPA 255	Flame Spread Index 20; Smoke Development Index 90
Tensile Strength	ASTM D 638	3527.4 psi

*Resuflor Aqua 3477 at 1.5 mils (40 microns) DFT topcoated with Resuflor 3746 at 17.5 mils (438 microns) DFT

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SHERWIN WILLIAMS | HIGH PERFORMANCE FLOORING

RESUFLOR™ 3746
HIGH PERFORMANCE EPOXY

PART A	GP3746	SERIES
PART A	GP8746	WITH ANTIMICROBIAL AGENT
PART B	GP3746B01	HARDENER
PART B	GP3746B02	FAST CURE HARDENER

Revised: December 9, 2022

PRODUCT INFORMATION

STORAGE / APPLICATION

MATERIAL DELIVERY AND STORAGE:

Store materials in accordance instructions, with seals and labels intact and legible. Keep resins, hardeners, and solvents separated from each other and away from sources of ignition. 18 months shelf life is expected for products stored between 40°F (4.5°C) - 100°F (38°C).

APPLICATION INSTRUCTIONS:

1. Premix GP3746 (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to introduce air into the material.

2. Add 2 parts GP3746 (resin) to 1 part GP3746B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.

3. Apply GP3746 using a squeegee or trowel and back roll with a 3/8" nap roller at a spread rate of 50-160 square feet per gallon (1.3-4.0 meters squared per liter) to yield 10-30 mils (250-750 microns) WFT making sure of uniform coverage. Take care not to puddle materials and insure even coverage.

4. Allow to cure 24 hours minimum before opening to traffic and 72 hours before water exposure.

Note: Epoxy materials will appear to be cured and “dry to touch” prior to full chemical cross linking. Allow epoxy to cure a minimum of 3 days prior to exposure to water or other chemicals for best performance.

TINTING

Can be tinted with GIS and HPF Universal colorants. For Universal colorants use one pint per 3-gallon mix of GP3746A01 (Clear) for most colors, and two pints per 3-gallon mix for White, Bright Yellow, Light Gray, and Rotunda Red.

Ensure that the colorant is thoroughly incorporated prior to use.

Do not tint package colors.

CHEMICAL RESISTANCE

For comprehensive chemical resistance information, consult the Chemical Resistant Guide and contact your Sherwin-Williams representative.

CLEANUP

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvents.

SAFETY

Refer to the SDS sheet before use.

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MAINTENANCE

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact your Sherwin-Williams representative.

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SHERWIN WILLIAMS | HIGH PERFORMANCE FLOORING

RESUTILE™ HTS 100
SATIN URETHANE TOPCOAT

PART A	GP4640A01	CLEAR
PART B	GP4640B01	HARDENER
PART C	GP4640C01	AGGREGATE

Revised: June 13, 2023

PRODUCT INFORMATION

PRODUCT DESCRIPTION

RESUTILE HTS 100 is a clear, high solids, three-component, aliphatic, moisture-cure urethane applied over an epoxy primer or used to recoat an existing epoxy or urethane floor.

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.
- Lasts twice as long as standard urethanes; up to four times as long as standard epoxies
- Light stable, satin finish maintains fresh look in traffic aisles
- Resists Skydrol®, jet fuels and other industrial chemicals
- Low VOC (6 g/L). (Complies with SCAQMD VOC regulations.)

TYPICAL USES

- Hangar Floor
- Automotive manufacturing
- Mechanical Room
- Assembly / Production
- Packaging
- Clean Room / Lab

GENERAL INFORMATION

Use colorants at a rate of one unit per 1-gallon (3.78 litres) of Resutile HTS 100. Standard colorants: White, Yellow Sandy Beige will not impart total hide. Similar colorants also may not hide as well.

LIMITATIONS:
Contamination (Fisheyes): Product may fisheye if oil, silicones, mold release agents or other contaminants are present.

Chemical Resistance / Staining: Reduced chemical resistance and staining is possible in pigmented versions of the system.

ORDERING INFORMATION

Packaging:

Part A: 1.48 gallons (5.6L) in a 5 gallon (18.9L) pail, and 3.7 gallons (14L) in a 5 gallon (18.9L) pail.

Part B: 0.40 gallons (1.5L) in a half-gallon (1.9L) can, and 1 gallon (3.8L) in a gallon (3.8L) can.

Part C: ~4 lbs. in a half-gallon (1.9L) can, and ~20 lbs. in a 2 gallon (7.6L) pail.

PRODUCT CHARACTERISTICS

Color:	Clear
Mix Ratio:	Large kit: 1:1:1 by unit Small kit: 1:1:2 by unit
Volume Solids:	91.60%, mixed (ASTM D2369)
Weight Solids:	91.34%, mixed (ASTM D2369)
VOC (ASTM D3960):	7 g/L ; 0.05 lb/gal

Recommended Spreading Rate per coat:

	Minimum		Maximum	
Dry mils (microns)	**3.0**	(75)	**3.0**	(75)
~Coverage sq ft/gal (m^2/L):	**500**	(12.3)	**500**	(12.3)

Drying Schedule:

	@ 60°F/16°C 20% RH	@ 60°F/16°C 80% RH	@ 75°F/24°C 13% RH	@ 90°F/32°C 20% RH	@ 90°F/32°C 80% RH
Tack Free:	6.5 hours	12-16 hours	3.5 hours	1.5 hours	12-16 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, unopened
Store 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	11.7 mg loss
Coefficient of Friction	ASTM D2047	0.61
Elongation	ASTM D2370	6%
Flammability	ASTM D635	182 mm/min
Koenig Hardness, 3 Mil Film (resin only)	ASTM D4366	171.3
Tensile Strength (resin only)	ASTM D2370	6,250 psi
Water Absorption, 24-hour immersion	ASTM C413	0.2% weight increase
Wet Static Coefficient of Friction, BOT 3000	ANSI/NFSI B101.1	0.94

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

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SHERWIN WILLIAMS | HIGH PERFORMANCE FLOORING

RESUTILE™ HTS 100
SATIN URETHANE TOPCOAT

PART A	GP4640A01	CLEAR
PART B	GP4640B01	HARDENER
PART C	GP4640C01	AGGREGATE

Revised: June 13, 2023

PRODUCT INFORMATION

SURFACE PREPARATION

CHECK THE TEMPERATURE AND HUMIDITY: Floor temperature and materials should be between 65°F (18°C) and 90°F (32°C). Humidity must be less than 80%. DO NOT coat unless floor temperature is more than five degrees over the current, local dew point.

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 mitigation system may be a consideration. Consult your Sherwin-Williams representative for further information / instructions.

NOTE: Although moisture 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. Additional testing may be necessary to determine the vapor barrier and any contamination.

APPLICATION EQUIPMENT

- Protective clothing
- Jiffy® mixer blade
- Application tray
- Disc machine
- Slow speed drill (500 rpm or less)
- Roller assembly (18")
- Medium (3/8") nap roller
- 60 grit sandpaper
- 80 grit sandpaper

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.)

APPLICATION INSTRUCTIONS

Recoat: Resutile HTS 100 may be used to coat over an existing epoxy or urethane in sound condition. Detergent scrub and rinse with clean water to remove surface dirt, grease, oil and contaminants. Floor must be sanded thoroughly with 80 grit paper/60 grit screen prior to recoating. If sanding a high wear urethane, use 60 grit paper as the filler in high wear urethanes will wear down the paper very quickly. Change the paper every 200 sq. ft. (18.6 m2) so abrasive stays sharp. 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.

Resutile HTS 100 must be applied over a Sherwin-Williams' 100% solids epoxy primer.

Premix Part A for 3 minutes using a Jiffy mixer blade with slow speed drill. Pot Life: Mix only enough material which can be used in a two-hour period. Note: Once opened, this material cannot be resealed for later use.

Colors: Premix Sherwin-Williams colorant before adding to Resutile HTS 100 to ensure uniform color. Add colorant to Resutile HTS 100 Part A and mix using a Jiffy mixer blade and slow speed drill. Use colorants at a rate of one unit per 1-gallon (3.78 litres) unit of Resutile HTS 100.

Pour Part C into Part A while mixing. Continue to mix and add Part B. Mix for 3 minutes using a Jiffy mixer blade and slow speed drill. Pour into application tray.

Apply Resutile HTS 100 at the rate of 500 sq. ft./gallon (46.45 m2/3.78 litres) with a 3/8" nap roller. For proper appearance and development of physical properties, it is crucial that material is not applied above or below this rate. Dip the roller in the coating and lightly roll out excess in the application tray. Apply two 8-10 foot (2.4-3.0 meters) long paths on the concrete, making one stroke left to right and one right to left. Rewet the roller and apply two more paths adjacent to the first pair. Rewet roller and apply a third pair adjacent to the second.

Spread the material evenly with V-shaped cross passes.

Make sure the floor has just enough coating to cover evenly. Excess material could cause the floor to blister, especially in high humidity. Insufficient material will cause the floor to look non-uniform.

Level the area with straight passes that cross the initial material paths. These final strokes will reduce roller marks. If the appearance is not satisfactory, reroll the area.

Remix the material in the tray occasionally (with the roller) to prevent settling of the Part C (filler).

NOTE: When multiple applicators are used to apply material, inconsistencies between areas may result. To ensure a more uniform finish, an individual outfitted with spike shoes may finish by pushing or pulling a roller across all applicator areas.

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 properties take 14 days to develop.

SHERWIN WILLIAMS | HIGH PERFORMANCE FLOORING

RESUTILE™ HTS 100
SATIN URETHANE TOPCOAT

PART A	GP4640A01	CLEAR
PART B	GP4640B01	HARDENER
PART C	GP4640C01	AGGREGATE

Revised: June 13, 2023

PRODUCT INFORMATION

CHEMICAL RESISTANCE

Reagent	1 Day	7 Days
Hydrochloric Acid 10%	E	E
Hydrochloric Acid 30% (Muriatic)	E	E
Nitric Acid 10%	E	E
Phosphoric Acid 50%	E	G
Sulfuric Acid 37% (Battery Acid)	E	E
Acetic Acid 10%	E	E
Citric Acid 10%	E	E
Oleic Acid	E	E
Ammonia Hydroxide 10%	E	E
Sodium Hydroxide 50%	E	E
Ethylene Glycol (Antifreeze)	E	E
Isopropyl Alcohol	E	E
Methanol	E	E
D-Limonene	E	E
JP-4 Jet Fuel	E	E
Gasoline	E	E
Mineral Spirits	E	E
Xylene	E	E
Methylene Chloride	P	P
MEK	E	E
PMA	E	E
Ammonium Nitrate 20%	E	E
Brake Fluid	E	E
Bleach	E	E
Motor Oil (SAE 30)	E	E
Skydrol® 500B	E	E
Skydrol® LD4	E	E
Sodium Chloride 20%	E	E
1% Tide® Laundry Soap	E	E
10% Trisodium Phosphate	E	E
Coffee	E	E
Coke®	E	E
Ketchup	E	E
Mustard	G*	G*
Red Wine	E	G*
3M™ DuraPrep™	G*	F
Purdue Betadine Solution	G*	G*

ASTM D1308 Test Method 3.1.1 spot test, covered. Results are 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

MAINTENANCE

Allow floor coating to cure at least one week before cleaning by mechanical means (e.g., sweeper, scrubber, disc machine).

Care: Proper maintenance will increase the life and help maintain the appearance of your new Sherwin-Williams floor coating. Sweep and scrub your new coating regularly, as dirt and dust are abrasive and can quickly dull the finish, decreasing the life of your coating. Remove spills quickly as certain chemicals may stain and could possibly permanently damage the finish. Use soft nylon brushes or white pads on your new floor coating. Any brush more abrasive than a soft nylon or white pad can cause premature loss of gloss.

Caution: Avoid scratching or gouging the surface. All floor coatings will scratch if heavy objects are dragged across the surface. Do not drop heavy or pointed items on the floor as this may causing chipping or concrete popouts in the case of a weak cap. Rubber tires can permanently stain the floor coating from plasticizer migration. Plexiglass® between the tire and the floor coating can prevent discoloration. Rubber burns from quick stops and starts can heat the coating to its softening temperature, causing permanent marking.

Repair: Repair gouges or scratches or chip outs as soon as possible to prevent moisture or chemical contamination.

TINTING

Only tint with HPF Universal Colorants. Do not tint with GIS colorants. Use two pints of colorant per small kit (~2.12 gallon mix). Use five pints of colorant per large kit (~5.30 gallon mix).

Standard colorants: White, Bright Yellow, Rotunda Red and Sandy Beige will not impart total hide. Similar colorants also may not hide as well.

SAFETY

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