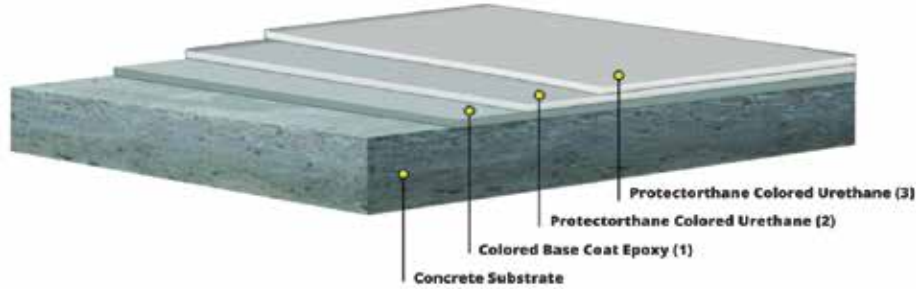


E-404 RESINOUS 123 FLOOR



DESCRIPTION

The Concrete Protector's Resinous 123 Floor System is a high-performance, industrial-grade epoxy flooring solution designed to deliver exceptional durability, protection, and a clean, seamless appearance in demanding environments. This system is a multi-layer resinous coating typically consisting of a solid-color epoxy base coat followed by one or more urethane topcoats, creating a dense, non-porous surface that bonds tightly to concrete. The result is a smooth, uniform "clean floor" finish that is both functional and visually appealing.

TYPICAL APPLICATIONS

- Factories and Production Plants • Equipment and Machinery Zones
- High-traffic Storage Facilities • Shipping/Receiving Areas
- Auto Repair Shops • Service Bays • Food Prep Facilities
- Schools and Hallways • Laboratories • Warehousing

PHYSICAL PROPERTIES TABLE

PROPERTY	VALUE
TEMPERATURE APPLICATION	55F-90F
COMPRESSIVE STRENGTH	8,400 PSI @ ASTM D695
ADHESION	435 PSI @ elcometer (concrete failure, no delaminating)
HARDNESS	Shore D= 80
TENSILE STRENGTH	6,900 PSI @ ASTM D638
VOC	Less than 335 g/l (mixed)
ELONGATION	2.50%
ABRASION RESISTANCE	Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 22.0 mg loss
MILS	30-35

PRODUCTS

PRODUCT NAME	SKU	COVERAGE RATE	WET MIL	TEMP	DRY TIME	RECOAT *After Dry Time	MIX RATIO	PACKAGING
QUICK PATCH	SI-1652	Refer to Repair Coverage Chart	N/A	30F-100F	2-10 Minutes	10-30 Minutes	1 part of Part A to 1 part of Part B, Optional Thickener	2 Gallon Kit
MATCH PATCH PRO JOINT 80	MPP-2001-MPP-2004	Refer to Repair Coverage Chart	N/A	50F-90F	30-60 Minutes	30-60 Minutes	1 part of Part A to 1 part of Part B	600 mil Side by Side Cartridges, 10 Gallon Kit
PROTECTOR-FLEX JOINT FILL	EM-6018	Refer to Repair Coverage Chart	1/2" - 1.5"	55F-90F	8-12 Hours	5-8 Hours	1 part of Part A to 1 part of Part B, Optional-1 Part Sand	2 Gallon Kit
EPOXY BASE COAT	EB-6107-EB-6165	160-210 sq. ft. per gallon	5-13 mils	55F-90F	6-10 Hours	11-14 Hours	2 parts of Part A to 1 part of Part B	1.5 Gallon Kit, 3 Gallon Kit, 7.5 Gallon Kit
PROTECTOR THANE 2K COLORED/ 2 COMPONENT	UT-4455-UT4473	350-450 sq. ft. per gallon	3-5 mils	55F-90F	6-8 Hours	5-9 Hours	2 parts of Part A to 1 part of Part B	3 Gallon Kit, 15 Gallon Kit

APPLICATION TOOLS

- 2" Green Specialty Tape
- TL-7235 Mixing Tarps
- TL-7361-- TL-7365 Assorted Mixing Containers & Cups
- RL-4325, RL-4335, RL-4319 4",9", or 18" Roller Frames
- RL-4323, RL-4341, RL-4313 4", 9", or 18" 3/8" Nap Roller Covers
- TL-7393, TL-7395 Threaded and Tapered Roller Poles
- RL-4343 2" Chip Brushes
- TL-7353, TL-7349 Spiked Shoes
- TL-7127 Large Low Viscosity Wand (mixing)
- ET-7255 1/8" Notched Squeegee
- TCR-1001 WTF Top Coat Roller
- RL-4317 Roller End Caps
- RL-4309 18" Paint Tray
- 5 Gallon Mixing Buckets
- Variable Speed Drill



MAINTENANCE

To preserve the appearance and prolong the life of a newly sealed surface implementing a regular maintenance program is essential. Dirt and debris tracked onto the floor can quickly scratch and dull the finish. Place walk-off mats at entrances and sweep or mop/scrub floors routinely using soft bristles or pads with a mild cleaning solution. Be aware that certain cleaners, equipment, or improper use can damage.

SURFACE PREPARATION

Moisture / Vapor Barrier: In accordance with ASTM standard testing, it is recommended that the substrate be evaluated for moisture vapor transmission prior to installation. If moisture vapor levels exceed acceptable limits, the application of a moisture vapor barrier system may be required before proceeding.

New / Bare Concrete: Prepare the surface by grinding and/or shotblasting. New concrete must be cured for at least 28 days and must comply with moisture vapor transmission (MVT) and relative humidity (RH) limits.

Previously Coated Surfaces: Thoroughly clean the surface to ensure that contaminants are not transferred to other areas during preparation. Remove all existing coatings or sealers using the grinding and/or shotblasting.

PH Balance: Testing the pH of concrete is recommended before applying coatings, sealers, stains, or overlays. Concrete is naturally alkaline, typically ranging from pH 10-13 when new. The ideal pH range is between 7-9.

SET UP AND MIXING AREA

Set up the mixing station as close to the work area as possible. Lay down a tarp over the floor and tape it securely in place. Before beginning the application, organize all required tools, safety gear, PPE, and clean-up materials within the mixing area so everything is ready and accessible.

Tape and Termination Points: Mask off all perimeter edges where the coating system will end. Create saw cuts and key-hole joints at all termination areas including high-traffic or impact zones.

PATCHING

Fill any cracks, holes, or damaged/spalled sections of the floor using:

Rigid Repairs - Quick Patch

- Set up mix station
- Pre-mix Part A and Part B by shaking the jugs vigorously
- Mix together vigorously (1 Part A to 1 Part B)
- (Optional) Add desired amount of Quick Patch Thickener (1-3 parts), mix vigorously for 20 sec.
- Pour into spalling, cracks, holes, pops and chips to overflowing
- Let dry
- Using a 4-7" grinder, grind the repair to an even, flush surface

JOINTS

Preserve dynamic (moving) joints, while static joints and saw cuts can be filled with proper joint filling material and coated over. Use dynamic joints as starting and ending points during the application process where necessary. Flooring systems may crack over time if the slab experiences excessive movement.

Match Patch Pro 80 Flexible Joint Fill

- Set up Mix Station
- Shake the cartridge vigorously for 2 min.
- Insert cartridge into dual caulk gun and twist on element static mixer
- Tilting down, pump caulk gun until material is dispersed through the element static mixer
- Place 5 pumpfulls of material into a container, discard
- Pump into control joints/ cracks until overflowing
- Let dry
- Using a razor scraper, scrape the repair to an even, flush surface

*** If using a joint pump gun, follow the manufacturer's instructions

Protector-Flex Joint Fill

- Set up Mix Station
- Pre-mix Part A and Part B separately
- Combine 1 part of Part A and 1 part of Part B, mix thoroughly
- Optional- Add 1 part of sand to thicken
- Pour into the joint and remove any excess material with a putty knife or similar tool

TEMPERATURE CONSIDERATIONS

Keep ambient and substrate temps above 50°F (at least 5°F away from dew point). Product temps during use at 70–80°F. Relative humidity should not exceed 80%.

BASE COAT (1)

Mixing

1. Set up mix station
2. Pre-mix Epoxy Base Coat Part A and Epoxy Base Coat Part B separately until well blended
3. Combine 2 parts of Epoxy Base Coat Part A and 1 part of Epoxy Base Coat Part B
4. Mix thoroughly, using a fan blade and drill, for 1-2 minutes

Application

Working Time= 20-25 minutes *Temperatures may affect work times* (OUT OF THE BUCKET AND ONTO THE FLOOR)

1. Using a chip brush and/or 4" edge roller, cut in all walls and edges. Do not work edges more than 10 minutes ahead of the main floor.
2. Pour mixed product on floor in a ribbon 3-9" wide
3. Wearing spiked shoes and using an 1/8" notched squeegee, spread Epoxy Base Coat at 160-210 sq. ft. per gallon (Maintain a wet edge- pour next batch on wet edge- do not allow more than 15 minutes for next batch- do not overwork material)
4. Using an 18" 3/8" nap roller, roll and backroll for consistent, even coverage. Overlap each pass by 20% (Maintain a wet edge- pour next batch on wet edge- do not allow more than 15 minutes for next mixed batch- do not overwork material)
5. Let Dry
6. Proceed to 1st Seal Coat.

PROTECTORTHANE COAT (2)

Mixing

1. Set up mix station
2. Pre-mix Colored Protectorthane Part A and Colored Protectorthane Part B separately until well blended
3. Combine 2 parts of Colored Protectorthane Part A and 1 part of Colored Protectorthane Part B
4. Mix thoroughly, using a fan blade and drill, for 2-3 minutes

Application

Working Time= 20-25 minutes *Temperatures may affect work times*

1. Using a chip brush and/or 4" edge roller, cut in all walls and edges. Do not work edges more than 10 minutes ahead of the main floor.
2. Wearing spiked shoes and using an 18" 3/8" nap roller cover, dip and roll the Colored Protectorthane at 350-450 sq. ft. per gallon.
3. Let Dry
4. Proceed to 2nd Seal Coat. Do not wait to apply the 2nd coat of Colored Protectorthane past 24 hours. If it is past 24 hours, in order to get a chemical bond to the previous coat (if the re-coat window is missed), the entire surface will need to be abraded, vacuumed, and solvent wiped, before continuing with the next coat.

PROTECTORTHANE COAT (3)

Mixing

1. Set up mix station
2. Materials should be boxed (pre-mixed) prior to application to ensure uniform color and consistency across the entire surface. Combining material from multiple containers prior to application ensures uniform color, consistency, and performance.
3. Pre-mix Colored Protectorthane Part A and Colored Protectorthane Part B separately until well blended
4. Combine 2 parts of Colored Protectorthane Part A and 1 part of Colored Protectorthane Part B
5. Mix thoroughly, using a fan blade and drill, for 2-3 minutes

Application

Working Time= 20-25 minutes *Temperatures may affect work times*

1. Using a chip brush and/or 4" edge roller, cut in all walls and edges. Do not work edges more than 10 minutes ahead of the main floor.
2. Wearing spiked shoes and using an 18" 3/8" nap roller cover, dip and roll the Colored Protectorthane at 350-450 sq. ft. per gallon.
3. Let Dry

CLEAN-UP & DISPOSAL

Waste Disposal:

Waste management should be in full compliance with federal, state, and local laws.

DISCLAIMER

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LINKS

Quick Patch Part A- SDS

<https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS-QUICK-PATCH-PART-A.pdf>

Quick Patch Part B- SDS

<https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS-QUICK-PATCH-PART-B.pdf>

Quick Patch- TDS

<https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/TDS/TDS-QUICK-PATCH.pdf>

Match Patch Pro Joint 80- TDS

[https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/TDS/TDS-MPP-JOINT-FILL-80%20\(1\)%20\(1\)%20\(1\).pdf](https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/TDS/TDS-MPP-JOINT-FILL-80%20(1)%20(1)%20(1).pdf)

Match Patch Pro Joint 80 Part A- SDS

[https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS-MPP-Joint-Fill-80-Part-A%20\(1\).pdf](https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS-MPP-Joint-Fill-80-Part-A%20(1).pdf)

Match Patch Pro Joint 80 Part B- SDS

[https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS-MPP-Joint-Fill-80-Part-B%20\(1\).pdf](https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS-MPP-Joint-Fill-80-Part-B%20(1).pdf)

Protector Flex Joint Fill Part A- SDS

<https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS-PROTECTOR-FLEX-JOINT-FILL-PART-A.pdf>

Protector Flex Joint Fill Part B- SDS

<https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS-PROTECTOR-FLEX-JOINT-FILL-PART-B.pdf>

Protector Flex Joint Fill -TDS

<https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/TDS/TDS-PROTECTOR-FLEX-JOINT-FILL.pdf>

Epoxy Base Coat Part A- SDS

[https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS-Epoxy-BaseCoat-A%20\(1\).pdf](https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS-Epoxy-BaseCoat-A%20(1).pdf)

Epoxy Base Coat Part B- SDS

<https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS-EPOXY-BASECOAT-PART-B.pdf>

Epoxy Base Coat- TDS

[https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/TDS/TDS-EPOXY-BASECOAT%20\(1\).pdf](https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/TDS/TDS-EPOXY-BASECOAT%20(1).pdf)

Protectorthane 2K Colored -TDS

<https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/TDS/TDS-PROTECTORTHANE.pdf>

