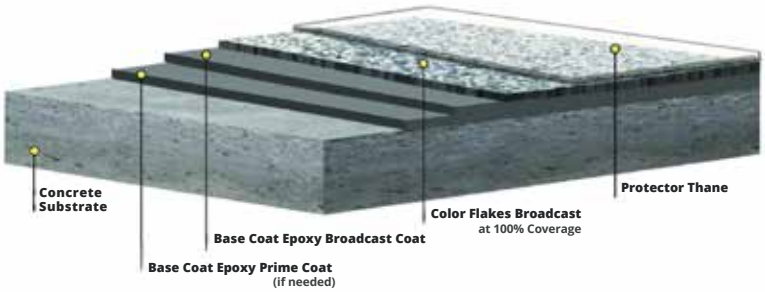
E- 401 PROTECTOR-FLAKE BROADCAST P-THANE (INTERIOR)



DESCRIPTION

The Concrete Protector's Protector-Flake Broadcast System with Protectorthane (Interior) is a high-performance decorative concrete flooring solution designed to deliver durability, aesthetics, and long-term protection in interior environments. This system begins with the application of a pigmented base coat, into which vinyl flakes are broadcast to full or partial rejection, creating a multi-colored, textured surface that enhances depth and visual appeal. When sealed with Protectorthane, a two-component polyurethane, it forms a durable, resilient floor that combines decorative appeal with industrial-grade protection.

TYPICAL APPLICATIONS

Garages Basements Retail Stores Showrooms Office Spaces Warehouses Automotive Service Areas Clinics Labs Locker Rooms Restrooms

PHYSICAL PROPERTIES TABLE

PROPERTY	VALUE
TEMPERATURE APPLICATION	55F-90F= BC
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= BC
VOC	Less than 335 g/l (mixed)
ELONGATION	2.50%
ABRASION RESISTANCE	N/A
MILS	30-38

PRODUCTS

PRODUCT NAME	SKU	COVERAGE RATE	WET MIL	TEMP	DRY TIME	RECOAT	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 Cartidges
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, 10 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
COLOR FLAKES	N/A	5-7 Ft. Per Pound	N/A	N/A	N/A	N/A	N/A	40 lbs. Box
PROTECTOR-THANE CLEAR	UT-4449-UT-4453	160-240 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)
- TCR-1001 WTF Top Coat Roller
- RL-4317 Roller End Caps
- 5 Gallon Mixing Buckets
- Variable Speed Drill
- Mixing Paddle
- TL-7107 Stand Up Metal Scraper

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 the surface. Clean up spills promptly to prevent stains or 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%.

BROADCAST COAT

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 ⅛" 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, then 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 for next mixed batch- do not overwork material)
5. Broadcast Color Flakes

- Start broadcasting flakes after about 1/3 of the floor is coated and wet with mixed Epoxy Base Coat. Waiting until the entire floor is coated will enable the epoxy to start the drying process, preventing the flakes from sticking to their full capacity. Before actually broadcasting, we recommend doing what is called a "refresh" . A refresh is basically rolling back through the area which you already coated to re-wet the epoxy, which will result in better flake adhesion.
- When broadcasting flakes, make sure to keep broadcasted flakes away from the edge of where you stopped rolling epoxy (try and stay around 2 feet back from the epoxy edge). You don't want to have flakes right up to the edge of the epoxy which will create a visible ridge. Look for missed "shiny" areas.

6. Let Dry
7. Proceed to Scraping and Broadcast Clean Up

SCRAPING AND BROADCAST CLEAN UP

1. Using a leaf blower, blow excess color flakes into a pile.
2. Using a broom and dustpan, collect excess flakes and put them into a designated container or box. These flakes can be collected and reused for future applications, helping reduce material waste and improve cost efficiency.
3. Using a Stand Up Metal Scraper, scrape the entire floor in one direction (north to south) then cross-hatch (east to west). Applying more aggressive scraping results in a smoother finish, while lighter scraping preserves more surface texture.
4. Using a vacuum, remove all dirt and excess color flakes from the floor. These scraped flakes are not reusable, as the process of scraping reduces the size of the flake.
5. Proceed to 1st Seal Coat

1ST SEAL COAT

Mixing

1. Set up mix station
2. Pre-mix Clear Protectorthane Part A and Clear Protectorthane Part B separately until well blended
3. Combine 2 parts of Clear Protectorthane Part A and 1 part of Clear 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" ⅜" nap roller cover, dip and roll the Clear Protectorthane at 160-240 sq. ft. per gallon.
3. Let Dry
4. Proceed to 2nd Seal Coat. Do not wait to apply the 2nd coat of Clear Protectorthane past the recoat window.

2ND SEAL COAT

Mixing

1. Set up mix station
2. Pre-mix Clear Protectorthane Part A and Clear Protectorthane Part B separately until well blended
3. Combine 2 parts of Clear Protectorthane Part A and 1 part of Clear 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 1 8" ⅜" nap roller cover, dip and roll the Clear Protectorthane at 160-240 sq. ft. per gallon.
3. Let Dry

CLEAN-UP & DISPOSAL

Clean all tools and equipment as needed using acetone observing all health and safety precautions when using or storing solvents.

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
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
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
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
EPOXY BASE COAT PART A- SDS
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
COLOR FLAKES- SDS
https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS-COLOR-FLAKES.pdf
PROTECTORTTHANE CLEAR- TDS
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