G-303 GRANIFLEX FLAKE BROADCAST WITH EPOXY NEAT COAT

OPTIONAL TOPCOAT - ACRYLIC FLOOR FINISH (GLOSS OR SATIN), WB URETHANE (GLOSS OR SATIN)
SEAL COAT: NEAT COAT (INTERIOR)
BROADCAST MATERIALS: (COLOR FLAKES, MICAS)
PERMAFLEX™ BROADCAST COAT
OPTIONAL LIQUID RUBBER BASE™ (LRB) COAT*
PERMAFLEX™ PRIME COAT
CONCRETE SUBSTRATE

DESCRIPTION

GraniFlex with Epoxy Neat Coat is a high-performance, flexible rubber membrane system designed for interior applications. Its advanced penetrating technology cures deep within the concrete capillaries, creating a durable yet flexible surface that resists cracking and brittleness over time. The system can be customized with thousands of flake blend options for both functional and aesthetic versatility. To finish, Epoxy Neat Coat is applied as the sealer, providing a high gloss finish and smooth textures.

PHYSICAL PROPERTIES TABLE

PROPERTY	VALUE
TEMPERATURE APPLICATION	55F - 90F
ADHESION	400 PLI
HARDNESS	SHORE D = 82
TENSILE STRENGTH	6,200 PSI @ ASTM D 368
ABRASION RESISTANCE	28.0 MG LOSS
VOC	<82 GRAMS PER LITER
MILS	40-70

TYPICAL APPLICATIONS

BASEMENTS, WORKSHOPS, RESTROOMS, KITCHENS, LIVING AREAS, MULTI-PURPOSE ROOMS, RETAIL & SHOWROOM FLOORS

PRODUCTS

PRODUCT NAME	SKU	COVERAGE RATE	WET MIL	TEMP	DRY TIME	RECOAT *After Dry Time	MIX RATIO	PACKAGING
Colored Flakes	BK-8325-CM-MICS	5-7 sq. ft. per pound	N/A	N/A	N/A	N/A	N/A	40 lb. Box
PermaFlex Accelerator	P-5820--P-5822	N/A	N/A	N/A	N/A	N/A	6.4 oz. per 1 gallon of PermaFlex for slow set/ 12.8 oz. per gal. for fast set	6.4 oz. Bottle, 1 qt. Bottle
PermaFlex Catalyst	P-5826--P-5828	N/A	N/A	N/A	N/A	N/A	1.6 oz. per gallon of PermaFlex	2 oz. Bottle, 8 oz. Bottle
PermaFlex	PFA-1000--PFA-1014	200-260 sq. ft per gallon	8 mils x 2 coats	40F-90F	1-8 Hours	1-8 Hours	1.6 oz. catalyst & 6.4 oz. accelerator per gallon, 10-20% solvent for thinning recommended	1 Gallon, 5 Gallon
LRB	SI-1622--SI-1624	40 sq. ft. per gallon	40 mils	15F-180F	4-6 Hours	4-6 Hours	15%- 25% water	Quarts, Gallons, 5 Gallons, 55 Gallon Drums, 250 Gallon Totes
LRB CATALYST	SI-5808--SI-5812	N/A	N/A	N/A	N/A	N/A	Pour and mix in included catalyst	Provided Bottle

(Continued on next page)

PRODUCTS (CONTINUED)

PRODUCT NAME	SKU	COVERAGE RATE	WET MIL	TEMP	DRY TIME	RECOAT	MIX RATIO	PACKAGING
TAV	SI-5852--S1-5860	N/A	N/A	40F-90F	N/A	N/A	2 Parts of LRB to 1 Part of TAV	Quart, 1 Gallon, 5 Gallon
ACETONE	CT-1013	N/A	N/A	N/A	N/A	N/A	10%-20% by volume per gallon of mixed PermaFlex	5 Gallon
EPOXY NEAT COAT	EN-6303	90-120 sq. ft. per gallon	10-30 Mis	55F-90F	8-16 Hours	8-24 Hours	2 parts of Part A to 1 part of Part B	3 Gallon Kit, 15 Gallon Kit
QUICK PATCH	SI-1672--SI-5850	Refer to Repair Coverage Chart	N/A	N/A	2-10 minutes	10-30 minutes	1 part of Part A to 1 part of Part B, optional thickener	2 Gallon Kit

APPLICATION TOOLS

- Any and All PPE Equipment
- Variable Speed Drill
- Mixing Paddle
- 5 Gallon Mixing Buckets Assorted
- Mixing Containers & Cups
- Edging rollers and brushes
- ET-7255 1/8” Notched Squeegee
- TL-7235 Mixing Tarps
- TL-7361 18” Roller Frames
- RL-4317 Roller End Caps
- RL-4309 18” Paint Tray
- TL-7353, TL-7349 Spiked Shoes
- TL-7303 Pail Opener
- TL-7395 Tapered Roller Poles (used for notched squeegee)
- RL-4323 18” 3/8” Nap Roller Covers
- TL-7107 Stand Up Metal Scraper
- TL-7103 18” Magic Trowel

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: For on-grade concrete slabs, a proper moisture barrier is essential. Without it, seasonal fluctuations in ground moisture can lead to excessive moisture vapor transmission (MVT), even if pre-application tests show acceptable levels. The MVT must not exceed 3 lbs per 1,000 sq. ft. per 24 hours, in accordance with ASTM F1869. Additionally, the slab’s relative humidity (RH) must remain at or below 75%, as specified by ASTM F2170. If moisture levels exceed these limits, the installation of a moisture vapor barrier may be necessary.

New / Bare Concrete: Prepare the surface by shotblasting to achieve a CSP-2.5–4 (or higher) profile. Acid etching is also an acceptable alternative for surface preparation. New concrete must be cured for at least 28 days and must comply with the moisture vapor transmission (MVT) and relative humidity (RH) limits outlined above.

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 diamond grinding. Note: Diamond grinding alone does not adequately prepare the concrete for Graniflex; it must be followed by shotblasting or acid etching.

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 OPTIONS

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

Rigid - 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

Flexible - LRB/TAV
- Set up mix station
- Prime surface/sides of cracks, holes, pops, or chips with PermaFlex
- Let tack up
- Pre-mix LRB and TAV
- Mix TAV and LRB (1 Part TAV to 2 Parts LRB) until blended
- Fill in void by using a squeegee, trowel, or freezer bag (if filling a wall/floor junction or wall/wall junction - forming a 1" diameter bead)
- (Optional) Using a brush dipped in solvent, smooth out rough edges

JOINT OPTIONS

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

LRB/TAV
- Set up mix station
- Prime surface/sides of joints or saw cuts with PermaFlex
- Let tack up
- Pre-mix LRB and TAV
- Mix TAV and LRB (1 Part TAV to 2 Parts LRB) until blended
- Fill using a joint fill bag or 1 gallon freezer bag
- (Optional) Using a brush dipped in xylene, smooth out rough edges (if filling a wall/floor junction or wall/wall junction - forming a 1" diameter bead)

TEMPERATURE CONSIDERATIONS

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

COATS

PERMAFLEX PRIME COAT

Mixing
- Pre-mix PermaFlex for 30 seconds to ensure all components are consistent
- Add correct measurements of PermaFlex Catalyst (1.6 oz. per 1 gal.), and PermaFlex Accelerator (6.4 oz. per 1 gal. for slow set/ 12.8 oz. per gal. for fast set), mix until well blended
- Add desired amount of solvent (10%-20% by volume), mix until well blended

Application
- Working Time = 60 minutes
- 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.
- Pour mixed product on floor in a ribbon 3-9" wide
- Wearing spiked shoes and using a 1/8" notched squeegee, spread ribbon of PermaFlex on the floor gauging the material
- Using an 18", 3/8" nap roller, use a back and forth motion to lay out material, and then backroll perpendicularly 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)
- Let dry and then apply Broadcast Coat

(OPTIONAL) LRB FLOOD COAT

Mixing
- Pre-mix LRB for 30 seconds to ensure all components are consistent
- Add correct measurements of water (15-20%), and LRB Catalyst (1.6 oz. per gal.)
- Mix until well blended
- Add desired amount of solvent (0%- 20%), mix until well blended

Application
- Working Time = 15-20 minutes
- Pour mixed product on floor in a ribbon 3-9" wide
- Wearing spiked shoes, apply LRB coat using a ¼" notched squeegee
- Using an 18", ⅜ nap roller, use a back and forth motion to lay out material
- Using an 18" looped roller, backroll perpendicularly to release air
- Let dry

BROADCAST COAT

Mixing
- Pre-mix PermaFlex for 30 seconds to ensure all components are consistent
- Add correct measurements of PermaFlex Catalyst (1.6 oz. per 1 gal.), and PermaFlex Accelerator (6.4 oz. per 1 gal. for slow set/ 12.8 oz. per gal. for fast set), mix until well blended
- Add desired amount of solvent (10%-20% by volume), mix until well blended

Application
- Working Time = 60 minutes
- 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.
- Pour mixed product on floor in a ribbon 3-9" wide
- Wearing spiked shoes and using a 1/8" notched squeegee, spread ribbon of PermaFlex on the floor gauging the material
- Using an 18", 3/8" nap roller, use a back and forth motion to lay out material, and then backroll perpendicularly 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 batch- do not overwork material)
- Broadcast desired colored flakes to rejection at a rate of .16 lbs. per sq,ft.
- Let dry and then apply Epoxy Neat Coat

CLEAN UP AND COLLECTION OF BROADCAST

- Using a leaf blower or metal scraper, move all excess broadcast media into a pile for collection and reuse.
- Using a metal stand up scraper, scrape in a north to south direction across the entire application
- Using a metal stand up scraper, scrape in an east to west direction across the entire application
- Collect scraped flakes for disposal
- Vacuum and/or thoroughly remove all loose broadcast
- Proceed to the 1st Seal Coat.

1ST SEAL COAT

Mixing
- Pre-mix Epoxy Neat Coat Part A and Part B separately for 3 minutes to ensure all components are consistent
- Measure and combine 2 parts of Part A and 1 part of Part B, mix thoroughly with mixer on slow speed
- Pour mixed material into another bucket (Job Bucket), mix for an additional 30 seconds

Application
- Working Time = 20-25 minutes (OUT OF THE BUCKET AND ONTO THE FLOOR)
- Using a chip brush and/or 4" edge roller, cut in all walls and edges. Do not work edges more than 5-7 minutes ahead of the main floor
- Pour mixed product on floor in a ribbon 3-9" wide
- Wearing spiked shoes and using an 18" Magic Trowel, spread ribbon of Epoxy Neat Coat, at 90-160 sq. ft. sq. ft. per gallon
- Using an 18", 3/8" nap roller, use a back and forth motion to lay out material, and then backroll perpendicularly 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 batch- do not overwork material)
- Let dry and then (optional) apply a 2nd coat of Epoxy Neat Coat (optional) Add desired top coat

(OPTIONAL) 2ND SEAL COAT

Mixing

- Pre-mix Epoxy Neat Coat Part A and Part B separately for 3 minutes to ensure all components are consistent
- Measure and combine 2 parts of Part A and 1 part of Part B, mix thoroughly with mixer on slow speed
- Pour mixed material into another bucket (Job Bucket), mix for an additional 30 seconds

Application

- Working Time = 20-25 minutes (OUT OF THE BUCKET AND ONTO THE FLOOR)
- Using a chip brush and/or 4" edge roller, cut in all walls and edges. Do not work edges more than 5-7 minutes ahead of the main floor.
- Pour mixed product on floor in a ribbon 3-9" wide
- Wearing spiked shoes and using an 18" Magic Trowel, spread ribbon of Epoxy Neat Coat, at 90-160 sq. ft. sq. ft. per gallon.
- Using an 18", 3/8" nap roller, use a back and forth motion to lay out material, and then backroll perpendicularly 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 batch- do not overwork material)
- Let dry and then (optional) add desired top coat

TOP COAT OPTIONS

SKU	PRODUCT	COVERAGE	DRY TIME
UT-4501	**WB 421 Gloss**	175-500 sq. ft. per gallon	5-7 Hours
UT-4499	**WB 221 Satin**	175-500 sq. ft. per gallon	5-7 Hours
UT-4513	**SLV Poly 90**	175-250 sq. ft. per gallon	4-8 Hours
TJ-3113	**High Noon Acrylic Floor Finish**	1,500-3,000 sq. ft. per gallon	1-2 Hours
TJ-3125	**Satin Armor Acrylic Floor Finish**	1,500-3,000 sq. ft. per gallon	1-2 Hours

* Coverages and dry times vary depending on application techniques and temperature. Estimations are based on 70 degrees, 30 percent relative humidity. For more information, refer to TDS sheets.

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 must be fully compliant with all applicable federal, state, and local laws.

DISCLAIMER

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LINKS

PermaFlex Accelerator- SDS
https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS-PERMAFLEX-ACCELERATOR.pdf
PermaFlex Catalyst- SDS
https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS-PERMAFLEX-CATALYST.pdf
PermaFlex- SDS
https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS-PERMAFLEX.pdf
LRB Catalyst- SDS
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LRB- SDS
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TAV- SDS
https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS-Thickening-Activator-TAV.pdf
Quick Patch Part A- SDS
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Quick Patch Part B- SDS
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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
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Get A Grip- SDS
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ACETONE- SDS
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PERMAFLEX- TDS
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LRB- TDS
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QUICK PATCH- TDS
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MATCH PATCH PRO 80- TDS
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COLOR FLAKES- SDS
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COLOR FLAKES- TDS
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NEAT COAT EPOXY- TDS
https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/TDS/TDS-NEAT-COAT-EPOXY.pdf
NEAT COAT EPOXY PART A- SDS
https://49577885.fs1.hubspotusercontent-na1.net/hubfs/49577885/SDS/SDS%20-%20Neat%20Coat%20Epoxy%20Part%20A.pdf
NEAT COAT EPOXY PART B- SDS
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