

PRODUCT DATA

DESCRIPTION

Petra Decorative Flake System is a combination of COLORED vinyl flake chips and a specially formulated, clear 100% solids epoxy binder and top coat (or optional high solids urethane top coat). The epoxy has practically no odor and is VOC free, making it possible to be installed in enclosed areas and workplaces. Surface textures can be non-skid, with smoother finishes achieved with sanding and applying thicker top coats. This system also contains UV stabilizers to reduce yellowing due to exposure to ultra violet light. It can be applied on a variety of substrates including concrete, quarry tile, brick pavers, steel decks, plywood floors, etc.

MAIN FEATURES

- Even, uniform surface appearance
- Lowers maintenance costs
- Installs and cures rapidly
- Easy to keep sanitary, non-porous, seamless, with integral cove base if specified.
- No waxing or stripping

TYPICAL USES

- Laboratories
- Cafeterias
- Bottling Plants
- Showrooms
- Dairies
- Pharmaceutical Plants
- Meat Preparation Areas
- Hospitals
- Walk-in Coolers
- Cosmetic Plants
- Food Processing Plants
- Shower & Locker Rooms
- Swimming Pool Decks
- Grocery Stores
- Bathrooms

THICKNESS

Single Broadcast - Nominal nominal 1/16" (60 Mil) for light traffic.

Double Broadcast - Nominal nominal 1/8" (125 Mil) for moderate traffic, or more even coverage

Industrial Double Broadcast - nominal 3/16" (185 Mil) for heavy traffic, or more even coverage. This is double broadcast applied over Petra's standard Industrial Broadcast floor System.

APPLICATION PROCEDURE AND SPREAD RATES

A Double Broadcast application should yield a uniform appearance and an nominal 1/8" thickness.

1. Prepare substrate as recommended.
2. Apply WorkHorse 7400 at approximately 150 sq. ft. per gallon, with a flat squeegee and back roll.
3. Broadcast vinyl flake chips evenly at approximately .13 lbs per square foot (to rejection).
4. Let cure a minimum of 6 - 8 hours at 70 degrees F.
5. Use a stiff broom to sweep up excess paint chips, and vacuum all smaller areas.
6. Scrape the floor to knock off all loose edges and repeat step 5.
7. Apply Petra WorkHorse 7400 clear binder at approximately 150 sq. ft. per gallon. This step serves as a base coat for a second broadcast.
7. Broadcast vinyl flake chips evenly at approximately .13 lbs per square foot (to rejection).
8. Repeat steps 4 & 5 & 6, then sand with 80 grit screen to achieve desired texture.
9. Apply first topcoat of Petra Workhorse 7400TC at 95 sq. ft. per gallon.
10. Let Cure a minimum of 6 - 8 hours at 70 degrees F.
11. (Optional) Apply a second top coat of Petra Workhorse 7400TC at 200-250 sq. ft. per gallon.

PHYSICAL CHARACTERISTICS

Compressive Strength.....	16,000 PSI (ASTM D-695)
Hardness, Shore D.....	75-80 (ASTM D2240)
Tensile Strength.....	3,700 PSI (ASTM D638)
Tensile Elongation.....	7.5% (ASTM D638)
Flexural Strength.....	4700 PSI (ASTM D-790)
Linear Shrinkage.....	0.02% (ASTM D-2566)
Coefficient of Linear Expansion.....	12°F to 140°F (ASTM D-696)
Bond Strength to Concrete.....	335 PSI concrete fails (ACI-403)
Indentation.....	.050 inches (MIL D-3134)
Water Absorption.....	0.04% (ASTM D-570)
Electrical Conductivity.....	non-conductive
Flammability.....	self extinguishing (ASTM D-635)
Flame Spread / NFPA-101.....	Class A (ASTM E-84)
Elevated Temperature.....	No Slip or Flow (MIL D-3134)
Taber Abrasion Resistance.....	avg. 10.0 mg. loss (ASTM D 4060, CS-17 Wheels after full cure, 1000g load, 1000 cycles)
Coefficient of Friction.....	0.7-0.8 (ASTM D-2047)

COLORS:

Standard colors and color blends available. See Petra's Quartz Color Chart.

SUBSTRATE PREPARATION

Proper preparation is absolutely critical to ensure proper bonding. The substrate must be dry and free of all grease, wax, oils, dirt, loose or foreign materials and laitance. Any loose particles (Laitance, unbonded cement, etc) must be removed by abrasive shot blasting or scarifying. Oil, dirt and other contaminants may be removed by scrubbing with an industrial strength detergent and rinsing with clean water. Substrate must have a sandpaper-like texture after preparation, and be completely dry. For more information on proper substrate preparation, call Petra Coatings, Inc.

Suggested Architectural Specifications

Petra Vinyl Flake Systems (Nominal 60 & 125 Mil Systems):

- 1/16' (60 Mil) Single Broadcast
- 1/8" (125 Mil) Double Broadcast
- Three Component Epoxy System (optional Urethane topcoat)
(Resin Part A, Catalyst Part B, and Vinyl Flakes C)
 - Mix Ratio (By volume):
 - 2 Part "A" Resin
 - 1 part "B" Catalyst
 - Part "C" Vinyl flakes to be broadcast to rejection into wet floor.
- Color: TBD
- Two or 3 three coat process
- Cure Time: 6-8 hours minimum @ 70° F
- Can be smooth or non-skid
- Coat Description
 - 1) Squeegee mixed clear epoxy, part A & B over substrate @ 100 - 125 sq. ft. per gallon.
 - 2) Broadcast selected color quartz.
 - 3) Allow to dry
 - 4) Sweep Off Excess vinyl flakes, then scrape floor with trowel. Sweep again.
 - 5) For Top Coat: With squeegee, apply clear top coat @ 95 sq. ft. per gallon, and back roll to make even and level.
- For Double Broadcast repeat steps 1,2,3 & 4.

NOTE:

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