



Product Data Sheet For:

PLEXIFLAKES URF

Description

PLEXIFLAKES URF SEAMLESS RESINOUS FLOORING is a nominal 2 mm chemical resistant, decorative flake broadcast flooring system. This polyaspartic ester urethane system delivers a stain, wear, abrasion and UV resistant surface that has an exceptionally quick turnaround time offering a rapid return to service. The system is comprised of URF primer, PlexiQuartz aggregate, URF three component base coat, brightly colored flakes and two component URF UV resistant aliphatic polyaspartic urethane sealer. PlexiFlake URF systems are best used for commercial and institution applications. PlexiFlake URF floors provide a terrazzo- like appearance with the benefits of a seamless floor. These floors require no waxing and are easily cleaned. Long term care of PlexiFlake URF floors can be done with renewed additional topcoats. Surface finish can be smooth or slip resistant. Thicknesses can range from 1/16, 3/32, and 1/8th inch or greater.

Recommend Uses

Schools	Halls/ Corridors
Laboratories	Animal Facilities
Traffic Aisles	Warehouses
Restrooms	Waste Water Facilities
Lobbies	Hangars
Concourse	Restaurants
Pharmaceutical and Food Processing	Clean rooms
Offices and Holding Areas	Correctional Facilities
Breweries	Healthcare
Chemical Plants	Retail Stores

Benefits

- Reduction in downtime and rapid return to service
- Low Odor/ Low VOC/ Chemical Resistant
- Meets USDA, FDA, and OSHA standards
- An industrial strength polyaspartic resin with excellent bond strength
- Good abrasion (wear) resistance
- Easy maintenance
- 2, 4, 6 or 8 inch cove base available
- Can be installed in cold temperatures

Color

- PlexiFlake URF is available in 1/4 or 1/8th inch decorative flakes. The 1/4 inch flakes are available in 10 standard blends. Color options include solid colors or custom multi-color pre-blends.

Limitations

- Can be installed up to 3/16 for areas requiring increased thickness.
- This product is best suited for application in temperatures between 55 and 95°F. Substrate must be cleaned, sound and dry.

Packaging

- Colored quartz aggregate: 50 lb. bags
- Base Coat: 1 gallon, 5 gallon or 55 gallon drums; 50 lb. boxes of SL filler
- Vinyl Flakes: 50 lb. boxes
- Sealer: 1 gal, 5 gal, 55 gal

Surface Preparation

- **PlexiFlake URF** is ideally suitable for application over new or a clean, sound, profiled substrate. Not recommended over rehabilitated slab or wood, brick, tile, asphalt, mastic or products that are gypsum-based.
- Surface preparation by mechanical means only is critical to assure an adequate bond. Substrate must be profiled clean, sound and dry and free of all grease, oils, fats, loose or foreign materials, and laitance. The surface must show open pores throughout and have a sand paper texture.

Coverage

Each unit of **PlexiFlake URF** will cover approximately 125 square feet at a nominal 2mm thickness.

Installation Procedures

The URF primer is mixed and then applied to the floor with a squeegee and nap roller. The quartz aggregate is then broadcast into the wet primer. After a cure time of 3-4 hours, mix and apply the URF basecoat with a 30 mil notched squeegee and a medium nap roller. Within minutes begin broadcasting colored flakes until you have a uniform layer. Cure until the surface is tack free. Sweep off excess flakes. Apply the first URF sealer coat using a rubber squeegee and medium nap roller. Once cured, sand, vacuum and apply a second sealer coat. Mix only one mix at a time. The use of protective clothing, gloves and safety goggles must be worn when mixing and applying the flooring system. NIOSH/MSHA approved respirators and safety glasses are required.

PlexiFlake URF Technical Information

Salt spray Resistance, 25%	No effect after 100 hrs
Toxicity	Non- toxic, USDA approved

Physical Property	Test Method	Result
Hardness, shore D	ASTM D-2240	60-70
Tensile strength	ASTM D-638	2,300 PSI
Flexural Strength	ASTM D-790	2,100 PSI
Flexural Modulus of Elasticity	ASTM D-790	2.6 x 10 ⁶
Bond Strength to Concrete	ASTM D-7234	>400 PSI (100% concrete failure)
Indentation	MIL D-3134F	No Indentation
Linear Coefficient of Thermal Expansion	ASTM C-531	25 x 10 ⁻⁶ in./in. °F
Impact Resistance	ASTM D-4226	>160 inch per lbs.
Cure Rate	77°F	8 Hours Foot / 24 Operational
UV resistance	MIL F 52505	No chalking or loss of adhesion
Abrasion resistance CS 17 wheel, wgt. Loss, 1000 gr. Load, 10000 cycles	ASTM D-4060	22 mg loss
Coefficient of Friction (dry)	ASTM F-1679	0.79
Coefficient of Friction (wet)	ASTM F-1679	0.67
Flammability	ASTM E-648	Class 1

Notice: The technical data contained herein are true and accurate to the best of our knowledge. All products are offered and sold subject to Plexi-Chemie Standard Conditions of Sale. Published technical data and instructions are subject to change without prior notice.

Before using any Plexi-Chemie product, be sure the Material Safety Data Sheet is read and understood.

KEEP OUT OF REACH OF CHILDREN.