



Product Data Sheet For:

PLEXIFLAKE

Colored Flake Epoxy Flooring

Description:

PlexiFlake Colored Flake Seamless Epoxy Flooring is a decorative, multi-step “poured in place” flooring system comprised of 1/8th or 1/4-inch decorative flakes incorporated into PlexiGlaze No.4 or PlexiGlaze Floor Finish. This system is typically top coated with PlexiCrest P aliphatic polyester urethane or a thicker top coat PlexiCrest XP polyaspartic urethane. PlexiFlake systems are best used in or for commercial applications. PlexiFlake 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 floors can be done with renewed additional topcoats. Surface finish can be smooth or slip resistant.

Recommended Uses:

- ↪ Laboratories
- ↪ Traffic Aisles
- ↪ Restrooms
- ↪ Lobbies
- ↪ Concourse
- ↪ Pharmaceuticals/Research Facilities
- ↪ Manufacturing areas such as offices and labs
- ↪ Locker Rooms
- ↪ Food Service Areas
- ↪ Animal Facilities
- ↪ Maintenance Facilities
- ↪ Clean rooms
- ↪ Residential (Garages, Basements, Lanais, Kitchen floors, Balconies)

Benefits:

- ↪ Cost Effective Seamless, Decorative
- ↪ Excellent Gloss, Cleanability
- ↪ Low odor

- ↪ Meets USDA, FDA, and OSHA standards
- ↪ Easy to use
- ↪ Excellent abrasion (wear) resistance
- ↪ Easy maintenance
- ↪ Zero VOC
- ↪ PlexiFlake is available with Bio-inhibitor antimicrobial. This treatment will provide the floor with long term protection against a broad spectrum of bacterial and fungal attack. It is formulated into the flooring system from the basecoat up through the topcoat.

Color/Flake Size:

PlexiFlake is available in 1/8th or 1/4-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. Epoxy can be pigmented. See Plexi-Chemie’s color chart.

Limitations

This product is best suited for application in temperatures between 55°F and 95°F. Substrate must be cleaned, sound and dry. Treat moving cracks with PlexiPatch QC. A waterproofing and crack isolation membrane (Plexi-Chemie’s Rubberthane II) can be installed prior to system application.

Surface Preparation:

This product requires surface preparation by mechanical means only in order to perform as expected. Substrate must be profiled clean sound and dry. Shot blast is always the preferred method of surface preparation

Installation Procedures:

PlexiFlake is applied with a roller or squeegee. A typical yield at 1/16th inch thickness is approximately 150-200 sq ft per gallon of epoxy and 1 pound of decorative flake per 9 sq ft. See the PlexiFlake application instruction sheet for complete instructions. Double broadcast is required to obtain a 1/8" thickness.

PlexiFlake Technical Information:

Cured film thickness	16 mils at 100 sq. ft./ gallon spread rate
Salt spray Resistance, 25%	No effect after 100 hrs.
Toxicity	Non- toxic, USDA approved

PlexiFlake Physical Properties:

Physical Property	Test Method	Result
Hardness, shore D	ASTM D-2240	80 - 85
Water Absorption	ASTM D-570	.04%
Flammability	ASTM D-635	Self extinguishing
Tensile Strength	ASTM D-638	6,000 PSI
Flexural Strength	ASTM C-580	4,000-4,500 PSI
Izod Impact	ASTM D-256	.50
Compressive Strength	ASTM D695	16,500 PSI
Bonds strength to Concrete	ACI-403	Concrete fails before loss of Bond
Elevated temperature	MIL D-3134	No slip or flow
Thermal Shock, 50 cycles of immersion in chilled and boiling water	MIL F-52505	No cracking or loss of adhesion
UV resistance	MIL F 52505	No chalking or loss of adhesion
Abrasion resistance cs 10 wheel, wgt. Loss, 1000 gr. Load, 10000 cycles	ASTM D-4060	30 mg max loss
Impact Resistance	ASTM D-2794	>160 inch per lbs.
Adhesion	ASTM D-4541	>400 psi (100% Concrete Failure)

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.

Please be sure the Safety Data Sheet is read and understood before using any Plexi-Chemie product.