

**PI.434 – PRODUCT INFORMATION: HERMETIC™ Flake Floor**

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**DESCRIPTION**

HERMETIC™ Flake Floor is a fluid applied, decorative floor coating consisting of a combination of epoxy primers, epoxy resin coatings, polyaspartic resin coatings and protective urethanes. The finished look is meant to simulate that of terrazzo at a fraction of the price yet provide a seamless floor that is easy to clean and maintain.

**ADVANTAGES**

- Virtually unlimited colors and combinations
- Zero to very low VOC
- Fast set available for quicker turn around time
- New or existing floors
- Completely seamless and easy to maintain
- Available in satin or gloss
- Exceptional wear and abrasion resistance
- Meets or exceeds FDA, USDA and OSHA guidelines
- Stain and chemical resistant
- No wax or floor finish required
- Easy to install
- Competitively priced with traditional flooring options

**TYPICAL AREAS OF USE**

- Showrooms
- Clean Rooms
- Concourses
- Laboratories
- Supermarkets
- Medical
- Educational
- Public Rest Rooms

**SURFACE PREPARATION**

Generally, the exact recommended method of surface preparation varies from project to project and an Elite Crete Systems Technical Representative should be contacted to discuss in detail the type of preparation that should take place. Wet type surface preparation such as acid etching or power washing is not recommended.

**LIMITATIONS**

Regardless of the method of surface preparation, the substrate must be structurally sound, clean and dry to ensure adhesion and to achieve the expected finish. Not to be installed when the temperature is below 50F/10C or above 90F/32C.

For moisture concerns see document: *PI.551 – Product Information – Resinous Flooring Guidelines.*

For chemical resistance information see document: *TD.400 – Technical Data – Industrial Coatings Chemical Resistance Guide.*

**COLOR OPTIONS**

Color flakes are available in nearly all-imaginable colors and can be combined with any number of other color flakes and in various sizes.

**INSTALLATION GUIDE**

Although there are a number of “typical systems” listed below within this document that detail the options of products used for each, contact an Elite Crete Systems Technical Representative to discuss the specific details of each project.

**TYPICAL SYSTEMS**

Other options and combinations of products available. Contact a technical representative to discuss other options.

**OPTION #1 - Economic**

1. E100-VB5™ (optional two coats)
2. E100-PT4™ Standard or Fast Set
3. Color Flake (full or partial)
4. E100-PT1™ Standard or Fast Set (optional two coats)

**OPTION #2 – Better (Recommended)**

1. E100-VB5™ (optional two coats)
2. E100-PT4™ Standard or Fast Set
3. Color Flake (full broadcast to rejection)
4. E100-VR1™ (optional two coats)
5. AUS-V™ with AGG (optional two coats)

**OPTION #3 - Fast**

1. E100-VB5™ (optional two coats)
2. E100-PT4™ Fast Set
3. Color Flake (full broadcast to rejection)
4. SPARTIC-ALL™ RM (optional two coats)

All of the above examples can be double broadcast for additional and optional strength and durability and is highly recommended.

For additional abrasion and chemical resistance, apply one of several urethane top coats with the AGG additive. The coefficient of friction values can be adjusted to meet virtually any requirements. Typical COF ranges from 0.50 to 0.80.

**GUIDELINES for COEFFICIENT OF FRICTION**

- ADA Flat Surfaces 0.60
- ADA Inclined Surfaces 0.80
- OSHA 0.50
- NFPA 0.68

**PHYSICAL PROPERTIES (varies based on system components)**

	Test Method	Test Result
VOC Content	N/A	0 to 20 g/l
Toxicity	N/A	None - FDA and USDA Acceptable
Bond Strength (Concrete)	ASTM D-4541	390 to 450 psi 100% Concrete Failure
Heat Distortion Temperature	ASTM D-648	130° F
Shore D Hardness	ASTM D-2240	78 to 82 - 7 days
Compressive Strength	ASTM D-695	11,000 to 13,000 psi
Tensile Strength	ASTM D-638	2,100 to 4,200 psi
Abrasion Resistance CS-17 Wheel, 1KG Load, 1,000 cycles	ASTM D-4060	9 to 30 mg loss
Flexural Strength	ASTM D-790	4,500 to 6,400 psi
Slant Shear	ASTM C-882	100% Concrete Failure
Water Absorption 2 Hour Boil	ASTM D-570	0.03 to 0.12 %
Flammability	ASTM D-635	Self-Extinguishing
Flame Spread NFPA 101	ASTM E-84	Class A
Elongation at Break	ASTM D-638	4 to 6 %