

MICA-FLEX E DECORATIVE FLOOR SYSTEM

DESCRIPTION

MICA-FLEX E is a decorative floor system comprised of coats of 100% solids epoxy, natural mica flakes and a durable, UV resistant urethane topcoat. MICA-FLEX E utilizes unique MICA-FLAKE metallic flakes derived from a group of sheet silicate minerals.

BENEFITS

- Unique natural metallic luster
- Color-fast, UV stable
- Chemical and abrasion resistant
- Available in 6 natural colors
- Standard blends available

LIMITATIONS

MICA-FLEX DECORATIVE CHIPS are random in size due to the manufacturing process. This product is best suited for application in temperatures between 60°F and 90°F. Substrate must be clean, sound, and dry. Not recommended for outdoor use.

TYPICAL USES

MICA-FLEX E can be used to enhance the appearance of any floor.

- | | |
|---------------|-----------------|
| - Commercial | - Restaurants |
| - Night clubs | - Casinos |
| - Spas | - Hotels |
| - Offices | - Retail stores |

COLORS

MICA-FLEX E is available in six natural colors in two standard sizes: Macro (1/4") and Micro (1/12"). Each size is also available in three standard blends. Other blends can be created with any combination of the standard colors to create a unique range of glistening effects.

PACKAGING

All epoxy components are available in 1 gal., 5 gal., and 55 gal. containers. MICA-FLAKE decorative chips are packaged in 10 and 25 lb. boxes. Armor-Top urethane topcoat is supplied as a kit.

APPLICATION

MICA-FLEX E flooring system consists of an epoxy primer, epoxy broadcast coat, one or more epoxy grout coats (depending on texture requirements) and a urethane topcoat. See the MICA-FLEX E Application Instructions for more details.

JOINT GUIDELINES

Refer to the Joint Guidelines at www.dur-a-flex.com.

MOISTURE CONCERNS

Normal limits for moisture vapor transmission for epoxy floor systems are 3 lbs./1,000 sq. ft./24 hour using the calcium chloride test per ASTM F-1869 or 75% relative humidity using in-situ Relative Humidity Testing per ASTM F-2170. Please refer to the Floor Evaluation Guidelines at www.dur-a-flex.com for complete details.

CHEMICAL RESISTANCE

This product is resistant to most common chemicals. See the Chemical Resistance Chart at www.dur-a-flex.com for details.

CAUTION

Slight batch-to-batch color variations may occur. When ordering to match a previous color, inquire if the same batch number or quality control number is still available. Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed. KEEP OUT OF REACH OF CHILDREN.

MICA-FLEX E

TECHNICAL INFORMATION

Salt Spray Resistance, 25% solution at 90°F	No effect after 100 hours	
Toxicity	Non-toxic, meets USDA requirements	
Physical Property	Test Method	Result
Hardness, Shore D	ASTM D-2240	75 – 80
Water Absorption	ASTM D-570	0.04%
Flammability	ASTM D-635	Self extinguishing
Flame Spread / NFPA-101	ASTM E-84	Class A
Tensile Strength	ASTM D-638	3,700 psi
Flexural Strength	ASTM D-790	4,700 psi
Compressive Strength	ASTM D-695	16,000 psi
Izod Impact (ft. Lb./in. notch)	ASTM D-256	0.50
Bond Strength to Concrete	ASTM D- 4541	400 psi substrate fails
Elevated Temperature	MIL D-3134	No slip or flow
Thermal Shock, 50 cycles of immersion in Chilled & boiling water	MIL F-52505	No cracking or loss of adhesion
UV Resistance	MIL F-52505	No chalking or loss of adhesion
Coefficient of Friction	ASTM D-2047	>0.6
Abrasion Resistance, CS-17 Wheel, Wgt. Loss, 1000 gm. Load, 1000 cycles	ASTM D-4060	24 mg.loss
VOC Content		0 g/l

Before using any DUR-A-FLEX, Inc. product, be sure the Material Safety Data Sheet is read and understood