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PLEXI*CRETE* SLC

DESCRIPTION

Plexi*Crete* SLC (Self-leveling Broadcast Quartz/Flake/Chip) is a three component, 100% solids polyurethane flooring system designed for a variety of applications on concrete or steel. These systems provide conventional protection plus **thermal-shock resistance**, with a wide range of both caustic and acid resistance.

PLEXICRETE ADVANTAGES

- **Chemical Resistance** – polyurethane technology provides superb protection against caustics, organic and inorganic acids, solvents and most chemicals used today in industry.
- **Thermal Shock Resistance** – Plexi*Crete* and concrete have a similar coefficient of thermal expansion from under -50°F to 265°F. Plexi*Crete* withstands continuous hot water washdowns.
- **Impact Resistance** – while epoxy and vinyl esters can crack and spall, Plexi*Crete* will absorb an impact and distribute the force throughout the system.
- **Downtime** – no primers or sealers are required due to the **resin-rich** properties. Fast curing in less than 6 hours.
- **Non-Slip** – the surface can be customized to any facilities requirements…from decorative self-leveling to aluminum-oxide solid broadcast.
- **Odorless Materials** – no tainting of food products due to freedom from objectionable odors during application.
- **Thermal Comfort** – Plexi*Crete* provides superior insulation over concrete or other plastic flooring systems.
- **Hygiene** – Plexi*Crete* eliminates tile joints, minimizes cracking as occurs in traditional monolithic flooring, and reduces potential bacteria growth.
- **Hydrostatic Pressure** – PlexiCrete will withstand up to 14 lbs of vapor transmission in the slab without delamination. It also allows the concrete to breathe and is a solution for many moisture problems.
- **Antimicrobial**

Physical Properties

Compressive Strength	ASTM C-997	7,300 psi
Tensile Strength	ASTM C-307	800 psi
Coefficient of Thermal Expansion	ASTM C-531	1.5 x 10(-5) deg F
Density	ASTM C-905	130 lbs/ft3
Resistance to Fungi Growth	ASTM G-21	passes, rating of one
Impact Resistance	ASTM D-2794	no visible damage or deterioration at min 160 inch-pounds
Comprehensive Modulus	ASTM C-469	1.7 x 10(5) psi
Flexural Strength	ASTM C-580	3,505 psi
Modulus of Elasticity	ASTM C-469	1.7 x 10(5) psi
Thermal Conductivity	ASTM C-177	6.8 BTU-in/hr-ft2-deg F
Water Absorption	ASTM C-413	<0.1%
Abrasion Resistance	ASTM D-4060 @ 1000 cycles	.06 grams loss
Resistance to Elevated Temperatures	MIL-D-3134	no flowing or softening
Adhesion	ASTM D-4541	500 psi 100% concrete failure, exceeds concrete

Areas of Application

Food & Beverage
(FDA/USDA Accepted)
Bakery
Food Processing
Dairy
Meat Processing
Soda & Juice Facilities
Brewery
Prepared Foods
Commercial Kitchens
Chemical Processing
Animal Rooms
Secondary Containment
Pharmaceutical
Pulp & Paper

Chemical Resistance

Plexi*Crete* flooring systems resist spills and in many cases immersion of:

Acid	Alkalai
Hydrochloric	KOH
Phosphoric	Ammonium Chloride
Sulfuric	Sodium Hydroxide

Also resists hot fatty oils, diesel fuel, and organic solvents (MEK, Acetone, Toluene)

Full chemical resistance chart available upon request

Colors

Unlike competitor's products, Plexi*Crete* is available in a wide variety of colors

Solid Colors

Tile Red
Granada Grey
Desert Brown
Sky Blue
Other Pastels

Broadcast Colors

Full palate of quartz from 3M and Estes for Broadcast SLB/Q systems

Surface Preparation

Plexi*Crete* and all of our high performance resurfacing systems always require shotblasting and mechanical preparation. No other preparation method is acceptable for the long-term success of any floor.

Installation

Plexi*Crete* uniquely offers a combination of outstanding performance with ease of installation. Contact us for a copy of our comprehensive installation instructions**.**