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Product Data Sheet For:

PLEXICRETE HD

DESCRIPTION

PlexiCrete HD is a self-priming four component, 100% solids, high performance urethane mortar flooring system comprised of a urethane binder, pigments, powders and quartz aggregates. It is designed for a variety of applications on concrete or steel. This system provides 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** – PlexiCrete and concrete have a similar coefficient of thermal expansion from under -50°F to 265°F. PlexiCrete withstands continuous hot water washdowns.
- **Impact Resistance** – while epoxy and vinyl esters can crack and spall, PlexiCrete 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** – PlexiCrete provides superior insulation over concrete or other plastic flooring systems.
- **Hygiene** – PlexiCrete 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

Physical Properties

Compressive Strength	ASTM C-997	8,750 psi
Tensile Strength	ASTM C-307	1,250 psi
Coefficient of Thermal Expansion	ASTM C-531	1.5 x 10(-5) °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	2,625 psi
Flexural Modulus of Elasticity	ASTM C-580	2.6 x 10(6) psi
Thermal Conductivity	ASTM C-177	6.8 BTU-in/hr-ft2°F
Water Absorption	ASTM C-413	<0.03%
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
Heat Resistance		≥250°F

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

PlexiCrete flooring systems resist spills and in many cases immersion of:

Acid

Hydrochloric
Phosphoric
Sulfuric

Alkalai

KOH
Ammonium Chloride
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, PlexiCrete 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
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Surface Preparation

PlexiCrete 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

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