

Product Data Sheet For:

PLEXICRETE TSLB

Description

PlexiCrete TSLB (Troweled Slurry Broadcast Quartz) is a three component, 100% solids polyurethane flooring system designed for a variety of applications over concrete or steel. This system provides conventional protection plus **thermal-shock resistance**, with a wide range of both caustic and acid resistance (sulfuric acid, lactic acid, food acid, mineral acid and other organic materials).

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	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/ft ³
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	2,105 psi
Modulus of Elasticity	ASTM C-469	1.7 x 10(5) psi
Thermal Conductivity	ASTM C-177	6.8 BTU-in/hr-ft ² -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

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

Acid

Hydrochloric
Phosphoric
Sulfuric

Alkali

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

Range of color quartz available for broadcast. See Plexi-Chemie color chart.

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.

Leader in BBP (Benzyl Butyl Phthalate) free seamless urethane mortar flooring.

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 Material Safety Data Sheet is read and understood before using any Plexi-Chemie product.