
Product Data Sheet For:**PLEXICRETE SL****Description:**

PlexiCrete SL is a self-priming four component, self-leveling slurry to be applied @ 1/16" smooth finish or 1/8" broadcast with aggregate non-skid finish. This system is 100% solids, high performance urethane mortar flooring comprised of a urethane binder, pigments, powders and quartz aggregates. It is designed for light to medium traffic and abuse, while still providing the numerous benefits of a urethane mortar system. This system is designed to protect concrete and steel surfaces from a wide range of both caustic and acid resistance and impact. **Leader in BBP (Benzyl Butyl Phthalate) free seamless urethane mortar flooring.**

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** – for thermal shock resistance please see Plexi-Chemie's PlexiCrete SLBQ @ 1/4" thickness. This system 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.

Areas of Application:

Food & Beverage- (*FDA/USDA Accepted*)
Bakeries
Food Processing
Dairy
Meat Processing
Soda & Juice Facilities
Breweries

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:

<u>Acid</u>	<u>Alkali</u>
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.

Physical Properties:

Compressive Strength	ASTM C-579	9,000 psi
Tensile Strength	ASTM C-307 ASTM D-638	1,250 psi 2,200 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 ASTM D-790	2,625 psi 5,100 psi
Modulus of Elasticity	ASTM C-469	1.7 x 10(5) 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

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.
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Surface Preparation:

The success and failure of any flooring system is dependent upon the proper preparation of the substrate. Plexi-Chemie recommends using a method that will achieve a profile of at least CSP 3 as described by the International Concrete Repair Institute. Abrasive, captive shot blasting must be used to achieve this profile. This will abrade the concrete and remove latent materials that impede adhesion. PlexiCrete and all of our high performance resurfacing systems always require shot blasting and mechanical preparation. No other preparation method is acceptable for the long-term success of any floor.

Installation:

All Plexi-Chemie resinous flooring and wall system are installed by experienced certified installers. PlexiCrete uniquely offers a combination of outstanding performance with ease of installation. Contact us for a copy of our comprehensive installation instructions.

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