

Product Data Sheet For:

PLEXIGARD SL
*Floor Finish***PRODUCT DESCRIPTION**

PlexiGard SL Floor Finish is an exceptional resurfacer that is tailor made for commercial, institutional and industrial environments. This tough, multi-purpose, fast setting, slurry broadcast or mortar installed flooring system provides superior resistance to chemical spills, impact, abrasion and continuous traffic. **PlexiGard SL Floor Finish** is ideally suited for application including coating concrete surfaces in sanitary areas such as cafeterias, restaurants, hospitals, correctional facilities, pharmaceutical facilities, and food and beverage processing plants. It is also recommended for coating battery acid storage areas, laboratory walls and floors, kennel surfaces, tunnels, dams and manufacturing plant walls and ceilings, secondary containment areas and also containment areas that are exposed to jet fuel. **PlexiGard SL Floor Finish** offers excellent resistance to UV exposure if needed.

Standard Floor uses **PlexiGlaze Floor Finish** as a binder and lock coat tailored to the desired color. Slip resistance is regulated by the amounts of topcoats. Level 1 is with one lock coat and Level 2 is smoother with 2 lock coats of **PlexiGlaze Floor Finish** plus polyester urethane.

Flexible Floor uses **PlexiFlex 100**, a hybrid epoxy/urethane matrix as a binder and is designed to withstand heavy loads, dropping tools and the absorbing impact along with abrasion resistance. This floor is malleable.

High Chemical Resistance Floor uses **PlexiCoat F Novolac** resin where higher thermal and chemical resistance is required. Very good chemical resistance to acids and solvents. In addition, exhibits higher heat resistance where required.

AREAS OF USE

- ↪ Manufacturing and Industrial Plants
- ↪ Food Process Areas
- ↪ Service Areas (Automobile-Trucks)
- ↪ Garages
- ↪ Labs and Pharmaceutical Plants
- ↪ Machine Shops
- ↪ Loading Docks
- ↪ Ramps, Aisles
- ↪ Plant Vehicle Aisles

FEATURES

- ↪ Fast setting – 20 minutes
- ↪ Once component, add water only
- ↪ Easy to apply
- ↪ High bond and compressive strength
- ↪ Self-curing natural cement color
- ↪ Can be featheredged.
- ↪ Non-stink, non-staining
- ↪ Accepts cement based and latex paints after curing
- ↪ Provides water resistant finish

INSTALLATION**Surface Preparation**

Surface must be free of oils, grease and other surface contaminants. All previously painted surfaces must be shot-blasted and other patch material must be removed mechanically.

Priming

All areas should be primed with **PlexiSeal Primer, Primer 101** or **PlexiGlaze No 4** prior to application.

Joints

All expansion joints in the slabs need to be covered and filled with **PlexiFlex Polysulfide Joint Material**.

APPLICATION

PlexiGard SL Floor Finish is applied as a single broadcast using flint shot at 1/16" thick, and double broadcast using flint shot at 1/8" thick or slurry broadcast at 3/16" thick. Allow to cure as required and then apply 15 mils of 100% solids floor finish lock coat (**PlexiGlaze Floor Finish**). Final topcoat to be 3 mils of **PlexiCrest P Polyester Urethane**.

PHYSICAL PROPERTIES

| | | |
|---------------------------|---|---------------------------------|
| Compressive Strength | ASTM D695 | 17,540 psi |
| Tensile Strength | ASTM C307 | 2,950 psi |
| Flexural Strength | ASTM C580 | 4,180 psi |
| Bond Strength to concrete | ASTM D4541 | >400 psi |
| Impact Resistance | D3134 | Passes |
| Abrasion Resistance | ASTM D4060, TaborC17, 1000 g load, 1000 cycles | 0.12 g |
| Antimicrobial Resistance | | Passes |
| Flammability | ASTM D635 | Self-extinguishing (Class 1) |
| Water Absorption | ASTM D570 | 0.020% |
| Hardness (Shore D) | ASTM D2240 | 80-85 |

CHEMICAL RESISTANCE

| Reagent | Standard Cycloaliphatic | Flex 100 Epoxy Urethane | PlexiCoat F (Novolac) |
|----------------------|----------------------------|----------------------------|--------------------------|
| Acetic Acid 30 | R | R | R |
| Acetone | NR | R | R |
| 100% Acetic | NR | NR | R |
| 40% Amine Hydroxide | R | R | R |
| Benzene | NR | S | R |
| Chromic 15-29% | R | R | R |
| Ethylene Glycol | R | R | R |
| HCL 30% | R | R | R |
| Methelene Chloride | N | S | R |
| Nitric Acid 10% | N | N | R |
| Tri Sodium Phosphate | R | R | R |
| Tri Chloroethelene | N | S | R |
| Xylene | NR | R | R |
| | | | |

R=Resistant**NR=Not Resistant****S=Splash**

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.