

Product Data Sheet For:

PLEXIGARD

Shop Floor Finish

PRODUCT DESCRIPTION

PlexiGard Shop Floor Finish is an exceptional resurfacer that is tailor made for commercial and industrial environments where resistance to UV exposure is needed. **PlexiGard Shop Floor Finish** is ideally suited for those areas that are subject to physical traffic or chemical resistance depending on the resin matrix used in the application. **PlexiGard Shop Floor Finish** is state of the art flooring that uses **Plexi-Chemie's** diverse product line.

Standard SHOP FLOOR uses **PlexiGlaze IFF 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 IFF Floor Finish** plus polyester urethane.

Flexible SHOP 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.

High Chemical Resistance Shop 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 #4** prior to application.

Joints

All expansion joints in the slabs need to be covered and filled with **PlexiFlex Polysulfide Joint Material** or **PlexiPatch QCF (Flex)**.

APPLICATION

PlexiGard Shop 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
Tensile Strength	ASTM C307	2950 psi
Flexural Strength	ASTM C580	4180 psi
Bond Strength to concrete	≥	400 psi
Impact Resistance	D3134	Passes
Abrasion Resistance	ASTM D4060, TaborC17, 1000 g load, 1000 cycles	0.12 gr
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

CAUTION

Always read Safety Data Sheets and wear proper protection as required when handling resinous materials.