

Product Data Sheet For:

PLEXIGARD

Shop Floor

PRODUCT DESCRIPTION

PlexiGard Shop Floor is an exceptional resurfacer that is a combination of pigmented PlexiGlaze IFF 100% solids epoxy and a flint shot broadcast which is comprised of natural quartz sand. This self-leveling system is monolithic and extremely durable with thicknesses ranging from 1/8" to 1/4" after full broadcast. PlexiGard Shop Floor is ideally suited for those areas that are subject to physical traffic, heavy chemical abuse, or heavy loads/high impact. It is available in three different formulations: standard, flexible, and high chemical resistance.

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 top coat.

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 Areas
- Food Processing Areas
- Animal Care
- Fire Stations
- Labs and Pharmaceutical Plants
- Machine Shops
- Loading Docks
- Traffic Aisles
- Mechanical Rooms
- Mezzanines

FEATURES

- Low Odor
- Meets USDA, FDA, and OSHA Standards
- Superior Chemical Resistance
- 2:1 Ratio by volume

- Non-Blushing/Non-Waterspotting
- Low Viscosity

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. All surface preparation by mechanical means only. No acid etching.

Priming

All areas should be primed with PlexiGlaze #4 prior to application.

Joints

All expansion joints in the slabs need to be treated and filled with PlexiPatch QC.

APPLICATION

PlexiGard Shop Floor 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 D-695	17,540 psi
Tensile Strength	ASTM C-307	2950 psi
Flexural Strength	ASTM C-580	4180 psi
Bond Strength to concrete		≥400 psi Concrete Fails
Impact Resistance	ASTM D-3134	Passes
Abrasion Resistance	ASTM D-4060, Tabor C17, 1,000 gm load, 1,000 cycles	12 mgs
Antimicrobial Resistance		Passes
Flammability	ASTM D-635	Self-extinguishing (Class 1)
Water Absorption	ASTM D-570	0.020%
Hardness (Shore D)	ASTM D-2240	80-85
Tensile Elongation	ASTM D-638	>7%

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.