



## Product Data Sheet For:

# PlexiGlaze IFF SL 100 Self-Leveling

### DESCRIPTION

PlexiGlaze IFF SL is a pigmented, self-leveling epoxy surfacing system designed to renovate worn concrete floors or protect new concrete against moderate wear and mild chemical spills.

PlexiGlaze IFF SL is installed at a nominal 60 mils to 125 mils thickness consisting of:

- ↪ A 100% solids epoxy primer
- ↪ A self-leveling epoxy-silica mixture
- ↪ Optional aggregates and seal coats for specified finish and texture

PlexiGlaze IFF SL can be installed as a self-sealing system, broadcast with silica and resealed to produce a solid colored texture system, or broadcast with multicolored quartz or decorative flake aggregates, and sealed with a clear sealer to produce a decorative surface.

In solid colors, PlexiGlaze IFF SL can be coated with PlexiCoat F Novolac or PlexiCrest P to provide improved performance against moderate chemical spills.

### PRODUCT FEATURES

- ↪ Economical and durable
- ↪ Excellent color retention
- ↪ Fast and easy installation
- ↪ Will not support growth of fungus or bacteria. Also available with Bio-inhibitor antimicrobial formula.
- ↪ Can be applied to a damp surface
- ↪ USDA compliant for use in federally inspected meat and poultry plants
- ↪ Approved by Agriculture Canada Food Production and Inspection Branch for use in registered establishments

### USES

PlexiGlaze IFF SL is a durable, cost-effective, heavy duty floor surfacer that will provide a performance level between that of a troweled system and thin mil coating system.

PlexiGlaze IFF SL offers long-term, low-maintenance service for light industrial, commercial, and institutional flooring applications.

PlexiGlaze IFF SL is easily textured to provide sure footing in areas subject to spills and wash-downs.

PlexiGlaze IFF SL is ideal for use in clean rooms, light manufacturing and assembly, warehouses, workshops, mechanical rooms, laboratories, and a variety of commercial and retail applications.

### LIMITATIONS

- ↪ Substrate must be sound, clean, properly prepared, and free from high levels of moisture vapor transmission or hydrostatic pressure.

As is the case with any impermeable floor coating, any concrete slab on grade to receive this product should be tested for moisture content while in the planning and estimating stages. Product should only be installed if moisture content falls within acceptable range or where MVB 2000 can be used as a primer.

- ↪ Minimum application temperature is 40°F. Below 65°F, handling characteristics are affected and cure times lengthened
- ↪ Chemical exposure, service temperatures, mechanical abuse, and housekeeping influence service life

**PERFORMANCE CHARACTERISTICS OF SYSTEM**

Compressive Strength @ 7 days (ASTM C579).....	11,500 psi.
Tensile Strength (ASTM 307).....	2,250 psi.
Flexural Strength (ASTM 580).....	4,500 psi.
Bond Strength (ACI 03R).....	350 psi.
Thermal Coefficient of.....	concrete fails
Expansion (ASTM D696).....	0.000046 inch
Abrasion Resistance (ASTM D4060).....	per inch per 0oF
CS17 wheel, 1 kg. load,1000 rev.	0.1 gm. maximum
Thermal Shock Resistance (ASTM C884).....	weight loss
Water Absorption (ASTM C413).....	passes
Flammability (ASTM D635).....	0.1%
Impact Resistance (MIL D3134F).....	Self-extinguishing
Indentation (MIL D3134F).....	16 foot-pounds
	concrete fractures
	No indentation

**CHEMICAL RESISTANCE**

<u>Reagent</u>	<u>Rating</u>	<u>Reagent</u>	<u>Rating</u>
Acetic Acid-5%.....	L	Lactic Acid-15%.....	R
Acetone.....	L	Methyl Ethyl Ketone.....	L
Bleach.....	L	Nitric Acid-10%.....	R
Citric Acid - 50%.....	L	Skydrol.....	R
Crude Oil.....	R	Sodium Hydroxide-50%.....	R
Diesel Fuel.....	R	Sulfuric Acid-30%.....	R
Ethylene Glycol.....	R	Toluene.....	L
Fatty Acids.....	L	Urea.....	R
Gasoline.....	R	Vinegar.....	L
Hydrochloric Acid - 15%.....	R	Xylene.....	L

R - Recommended for continuous service. L - Limited recommendation, occasional spills.

This chart is intended as an aid in evaluating the performance of these systems in various chemical exposures at 75°F. The data is intended as a guide only. In severe or combination exposures, a sample should be tested under actual or simulated use conditions.

## **APPLICATION**

- Preparation:** Concrete must be structurally sound and clean. Preferred method includes abrasive blast or diamond grinding. Do not apply this or any impermeable finish over an on-grade slab with high moisture or RH levels. Consult PLEXI-CHEMIE for complete details.
- Step One:** Use of a primer is recommended with rough or porous substrates. Premix components, then mix primer A & B (PlexiGlaze #4) with a low speed drill equipped with a Jiffy Mixer for two minutes. Pour onto substrate in ribbons and apply with squeegee. Cut in with brush, and back roll with a short nap roller. Application rate should be 7-9 mils or 180-225 ft<sup>2</sup> per gallon, but will vary depending upon the condition of the substrate. A light broadcast of silica into wet primer will facilitate next step. Allow to tack. Proceed to next step within 24 hour window or sanding and tack wiping will be necessary for adhesion.
- Step Two:** Premix components, then blend IFF Parts A & B with a low speed drill equipped with a Jiffy Mixer for one to two minutes. Add SL powder, blending for an additional minute, making sure aggregate is fully wetted out. Pour onto floor surface in ribbons and level with a screed rake. De-aerate with a porcupine roller. If using a broadcast for a textured surface, proceed to next step immediately.
- Step Three:** Broadcast silica, quartz, or flake to excess. Allow to cure. Sweep and vacuum up loose aggregate.
- Step Four:** Premix components, then blend coating components A & B with a Jiffy Mixer for two minutes. Pour onto floor in ribbons, distribute with a notched squeegee and lightly backroll with a short nap roller to smooth out roller marks.
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## **COLORS**

Solid Colors: All IFF colors  
(See color chart)  
Decorative: Quartz (See PlexiQuartz color chart)  
Decorative: Flake (See PlexiFlake color chart)  
Custom colors are available.

## **SAFETY**

Safety Data Sheets are available from PLEXI-CHEMIE and should be consulted prior to use of the product. These products are intended for use by professionals only. Keep away from children and those not trained in the use and potential hazards involved.

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