



PlexiGlaze ShopFloor Epoxy Flooring System

DESCRIPTION

PlexiGlaze ShopFloor Epoxy Flooring System is a combination of pigmented 100% solids epoxy and natural quartz sand. The epoxy and the quartz aggregate are fused together during application into a monolithic surface that is extremely durable, thickness ranges from 1/16" - 1/8" - 1/4". **The PlexiGlaze ShopFloor Epoxy Flooring System** is similar in application technique, durability and chemical resistance to the time tested **PlexiQuartz Epoxy Flooring System**.

Typical Physical Properties Guide

Tensile Strength, min ASTM C-307	2,000 psi
Tensile Strength, (Resin) min. ASTM D-638	4,000 psi
Compressive Strength, min. ASTM C-579	12,500 psi
Compressive Strength, (Resin) min. ASTM D-695	17,500 psi
Bond Strength, min. ASTM D-4541	>400 psi (concrete failure)
Impact Strength, Passing MIL D-3134	No Chipping, Cracking or Delaminating
Hardness (Resin) ASTM D-2240 Shore D	70 - 80
Hardness (Aggregate) MOH'S Mineral Scale	6.5 - 7.0
Abrasion Resistance ASTM D-4060, Taber Abrader C17 1000 gr load, 1000 cycles	22 mg/loss
Water Absorption, max. ASTM D-570	0.02%
Flammability ASTM D-635	Self Extinguishing Bond to Concrete
Antimicrobial Resistance ASTM G-21	Passes

**Now available in our "Green" formulation with NO VOC.
This allows the concrete to breathe if hydrostatic pressure is a concern.*

Advantages

- Excellent Clarity
- Low Odor
- Surface texture, smooth to aggressive
- Meets USDA, FDA, OSHA standards
- Superior Adhesion
- Superior Chemical Resistance
- Easy Maintenance

Typical Uses

PlexiGlaze ShopFloor Epoxy Flooring System is designed for use wherever USDA, OSHA, FDA and EPA standards must be met. It can be applied on most sound substrates including concrete, quarry tile, brick pavers, steel decks, plywood floors, etc. It is ideally suited for heavy-duty industrial applications, particularly in areas requiring durability, easy maintenance, a high degree of sanitation, and high acid and chemical resistance. **PlexiGlaze Shop Floor Epoxy Flooring System** will protect a new concrete floor from industrial abuse and harsh chemical spillage.

Surface Preparation

By mechanical means only. Shotblast & diamond grind or scarify to obtain a clean workable profile. Surface must be free of oils, grease and wax. Remove these by high pressure washing and steam cleaning. Then profile the substrate. If the substrate is free of contaminants proceed to profile by mechanical means only. Typical areas of application

- Walk-in-Coolers
- Clean Rooms
- Animal Care Areas
- Traffic Aisles
- Machine Shops
- Manufacturing Areas
- Fire Stations
- Bottling Areas
- Pharmaceutical Plants
- Mechanical Rooms
- Laboratories

Colors

Common colors are Tile Red, Medium Gray, and Slate Gray. Refer to the Standard Color Chart for Readily available colors. Custom colors are also available.

Packaging

PlexiGlaze ShopFloor is available in 1-gallon cans, 5-gallons pails, and 50-gallon drums. Quartz sand is available in 50 lbs bags.

Performance Solutions Plexi-Chemie

Chemical Resistance

This product is resistant to many common chemicals. Please refer to the master "**Chemical Resistance Chart**" for actual resistance to specific chemicals/agents.

Before using any Plexi-Chemie, Inc. Products, be sure the Material Safety Data Sheet is read and understood.

Application

PlexiGlaze ShopFloor is applied with a roller, squeegee or trowel. A typical yield at 1/8" thickness is approximately 30 square feet per gallon of epoxy and 3/4 lb of Flintshot aggregate per square foot.

Limitation

This product is best suited for application in temperature between 55°F and 95°F. Substrate must be clean, sound and dry. Eroded or spalled areas must be "filled and leveled" with an epoxy grout composed of **PlexiGlaze # 4** and aggregate.

Moisture Concerns

Moisture vapor transmission in the slab should be measured prior to application of polymeric systems to ensure a long lasting, durable installation. Please refer to the master "**Moisture Guidelines**" for more information.

Special Purpose Formulations

PlexiGlaze # 4 "Regular" – For most typical installations under normal conditions.

PlexiGlaze # 4 "Cold Cure" – For cold area applications when temperature cannot be maintained over 55 °F and when a more rapid cure is required at normal temperatures. These will amber as topcoat.

PlexiGlaze # 4 "Fast Cure" – Use for intermediate coats in room temperature areas where fast turnaround is desired.

PlexiGlaze # 4 LS1000 – Ideal for topcoating quartz floors. Has excellent color retention. May be used in warm temperatures when longer pot life is required.

PlexiCrest P- Polyester Urethane for outstanding stain and chemical resistance.

Cleaning

This product is considered to be a low maintenance flooring solution; however, certain textures and service environments require specific procedures. Please refer to the master "Cleaning Guide".

Caution

Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed. KEEP OUT OF REACH OF CHILDREN.

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.



606-6 Lane Avenue North
Jacksonville, FL
Phone: (904) 693-8800
Fax: (904) 693-8700
Email: epoxy@plexi-chemie.com
Website: www.plexi-chemie.com