

POLY-CRETE HF

DESCRIPTION

POLY-CRETE HF is a 100% solids, aromatic, cementitious urethane system. It is a pigmented, trowel applied floor system. It is typically applied 1/4 -3/8 inch thick depending on design requirements. POLY-CRETE HF is designed to withstand aggressive chemical and thermal attack while providing abrasion resistance. An optional, integral cove base is available.

BENEFITS

- VOC Compliant
- CA 01350 Indoor Air Quality Compliant
- ADA Compliant
- Leed Credits Available
- Meets USDA, FDA and CFIA Standards
- Superior Adhesion
- Superior Chemical Resistance
- Will not support bacteria growth
- Easy Maintenance
- Thermal Shock Resistant
- Wide Service Temperature, -100 to 250°F
- No Topcoat Required
- Self Priming in most Installations
- Concrete RH levels up to 99%
- Accelerator can be added to aid in cure at low temperatures.
- Can Be Applied To 7-14 Day Old Concrete
- Typical Moisture levels should be no greater than 99% RH

LIMITATIONS

This product is best suited for application in temperatures between 50°F and 85°F. Substrate must be clean, sound and dry.

TYPICAL USES

POLY-CRETE HF is designed to protect concrete from chemical attack, corrosion, impact and thermal shock. Repeated exposure to hot oil or steam does not cause pitting, cracking or crazing. Typical areas of application:

- Chemical Processing
- Bottling Areas
- Food Processing Areas
- Sanitize / Wash Areas
- Cook / Chill Areas
- Spalled Joint Repair
- Plant Vehicle Aisles

COLORS

Refer to Poly-Crete Color Chart for standard colors.

PACKAGING/STORAGE

POLY-CRETE HF is available in pre-measured kits that cover 18 Sq Ft. at 1/4 inch or 12 Sq Ft at 3/8 inch. POLY-CRETE HF must be stored dry. Do not use partial bags of aggregate. Do not allow resins to freeze. Every POLY-CRETE product will be shipped with a lot number on the label. The first two digits indicate the year; the second two show the month, the third two will be the day. The shelf life is 6 months from the date on the label in the original unopened container.

SURFACE PREPARATION

Substrate must be profiled, free of standing water, clean, oil free, and sound. Shot Blasting/Scarifying is recommended. To ensure that the finished system remains fully bonded to the substrate, it is recommended that edges of the floor area adjoining the walls be keyed to produce a cross section running at 6" from and parallel to the wall. Please refer to the master Surface Preparation Guide on our website for more information.

APPLICATION METHOD /SPREAD RATES

POLY-CRETE HF is trowel applied at 1/4 to 3/8 inch thickness. The resin and hardener should be added to a forced circulation pail mixer and pre-blended for approximately 30 seconds. Gradually add aggregate until homogeneous mix is attained. (Approximately 1 minute) Trowel, level and lightly roll with a 3/8-inch nap roller to eliminate trowel marks and to bring the resin to the surface. For maximum slip resistance in wet areas, broadcast #24 or #36aluminum oxide or Q-Rock #3 into the wet resin. As an option, a coat of POLY-CRETE COLOR-FAST can be applied to prevent ambering.

GUIDE SPECIFICATIONS

This product is part of the DUR-A-FLEX family of polymer systems. Please refer to the master Specifier's Guide for complete three part guide specifications.

DRAWINGS AND DETAILS

Standard CAD drawings and details are available for coves, drains, breaches, transitions, etc. Please refer to the master Drawings and Details guide for actual drawings.

JOINT GUIDELINES

Refer to the Joint Guidelines for complete details on our website.

MOISTURE CONCERNS

Normal limits for moisture vapor transmission for Poly-Crete floor systems are 20 lbs./1,000 sq. ft./24 hour using the calcium chloride test per ASTM F-1869 or 99% relative humidity using in-situ Relative Humidity Testing per ASTM F-2170. Please refer to the Floor Evaluation Guidelines at www.dur-a-flex.com for complete details.

CHEMICAL RESISTANCE

This product is resistant to many common chemicals. Please refer to the master Chemical Resistance Chart on our website for actual resistance to specific chemicals/reagents.

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 on our website.

CAUTION

Adequate cross ventilation should be provided. Read, understand and follow Material Safety Data Sheets and Application Instructions of this flooring system prior to use. Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed

POLY-CRETE HF**TECHNICAL INFORMATION**

Cure Time @ 70°F	
Light Traffic	6-8 hours
Light Wheel Traffic	12-16 hours
Full Service	3-5 days
Color	Refer to Poly-Crete Color Chart
Mix Ratio (by volume)	3 Component kit
Pot Life - 1 gallon @ 70°F	15 minutes
Adhesion to Concrete	> 400 psi, concrete fails before loss of bond
Service Temperature	-100 to 250°F

Physical Property	Test Method	Result
Hardness (Shore D)	ASTM D-2240	85
Compressive Strength	ASTM C-579	7,800 psi
Tensile Strength	ASTM D-638 ASTM C-307	4,200 psi 1,000 psi
Tensile Elongation	ASTM D-638	7.5%
Linear Expansion	ASTM C-531	2 x 10 ⁵
Impact Resistance	MIL-D-3134	Greater than 160 in-lbs.
Water Absorption	ASTM D-570	0.04%
Flame Spread/NFPA 101	ASTM E-84	Class C
Flexural Strength	ASTM D-790 ASTM C-580	5,076 psi 2,400 psi
Abrasion Resistance CS-17 Wheel 1000 GM Load 1,000 Cycles	ASTM D-4060	30 mg loss
Static Coefficient of Friction*	ANSI B101.1	>0.6
Dynamic Coefficient of Friction - Wet*	ANSI A326.3	>0.42
VOC Content		0 g/L

*Dur-A-Flex flooring systems can be built to meet or exceed the requirements of Static or Dynamic Coefficient of Friction testing per installation. Contact your Dur-A-Flex territory sales manager or tech representative for more information on alternative textures, grit/grip additives, or smooth coatings for your specific environment. A sample should always be obtained and tested prior to purchase for any non-slip flooring system.

IMPORTANT!

Before using DUR-A-FLEX products, read and understand its accompanying Safety Data Sheet & Application Instructions for important safety information.

STANDARD TERMS AND CONDITIONS OF SALE, INCLUDING STANDARD WARRANTY APPLY - VISIT **DUR-A-FLEX.COM** FOR THE LATEST VERSION