Dynamic Coatings Inc. | (877) 225-2549 | www.dciflooring.com PRODUCT DATA SHEET



95 Goodwin Street East Hartford, CT 06108

Tel: 800-253-3539 · Fax: 860-528-2802 · www.dur-a-flex.com · contact_us@dur-a-flex.com

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 220°F
- No Topcoat Required
- Self Priming in most Installations
- Can be installed with moisture levels up to 20 lbs/1,000 sf/24 hrs
- Accelerator can be added to aid in cure at . low temperatures.
- Can Be Applied To 7-14 Day Old Concrete

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

COLORS

POLY-CRETE HF is available in 8 standard colors. Refer to Poly-Crete Color Chart.

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. Typical Moisture levels should be no greater than 99% RH (Relative Humidity). Please refer to the master Surface Preparation Guide on our website for more information.

APPLICATION METHOD/SPREAD RATE

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 homogenous 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.

"Warranties: Seller warrants that its goods, as described on the face hereof, are free from any defects in material or workmanship. SELLER MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. SELLER SHALL NOT BE LIABLE FOR PROSPECTIVE PROFITS OR SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES. Seller's sole liability and buyer's exclusive remedy for breach of any warranty as expressly limited, at seller's option, to replacement at the original F.O.B. point or refund of purchase price, but in no event will Seller's liability exceed the total purchase price of the defective product. Seller shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended and in accordance with instruction provided for use of product. Any claim for breach of warranty shall be deemed waived unless buyer shall give seller written notice of such claim within sixty (60) days after delivery and shall allow seller reasonable opportunity to investigate claim and inspect product."

POLY-CRETE HF

TECHNICAL INFORMATION

Cure Time @ 70°F			
Light Traffic	6-8 hours	6-8 hours	
Light wheel traffic	12 – 16 hours	12 – 16 hours	
Full Service	3-5 days	3 – 5 days	
Color	Refer to Poyl-Crete	Refer to Poyl-Crete HF Color Selector Chart	
Mix Ratio (by volume)	3 Component Kit	3 Component Kit	
Pot Life - 1 gallon @ 70°F	15 minutes	15 minutes	
Adhesion to Concrete	> 400 psi, concrete	> 400 psi, concrete fails before loss of bond	
Service Temperature	-100 to 220°F (live	-100 to 220°F (live steam)	
Physical Property	Test Method	Result	
Hardness (Shore D)	ASTM D 2240	85	
Compressive Strength	ASTM C 579	8,565 psi	
Tensile Strength	ASTM D 638	950 psi	
Impact Resistance @ 125 mils	ML D-3134	Pass	
Flexural Strength	ASTM D 790	3,300 psi	
Abrasion Resistance	ASTM D 4060		
CS17 Wheel 1000 GM Load 1,000 Cycles		5 mg loss	
Coefficient of Friction	ASTM D 2047	(Passes ADA recommendations)	
Standard Slip-Resistant		0.9	
VOC Content		0 g/L	
Indoor Air Quality		Compliant to CA 01350	

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.

Before using any DUR-A-FLEX, Inc. product, be sure the Material Safety Data Sheet is read and understood.