

PUMA-CRETE HFB®

Heavy Duty, Urethane Industrial Flooring

Technical Datasheet



THE TOUGHEST FLOOR!

DESCRIPTION

Puma-Crete HFB® is a heavy duty floor, available in several textures. It is a very low odor, easy-to clean, troweled urethane mortar floor, designed to provide excellent resistance to abrasion, chemical attack and other physical aggression. It is designed for manufacturing facilities, especially food & beverage processing. Features include resistance to heavy traffic, chemicals and wet conditions, and maintains a slip resistant finish.

COMPOSITION

Water dispersed polyurethane resin system combined with graded silica aggregates, and polymeric resin top coat.

APPEARANCE

Medium to high gloss finishes available. Surface is easy-to-clean. Textures available include: smooth, orange peel, light, medium, or rough* requires scrub brushes or high pressure water wash. Meets ADA Standard: Coefficient of Friction (.6)

DURABILITY

Resistant to impact, abrasion, and heavy loading from fork trucks, pallet jacks and carts, commonly found in industrial facilities. Withstands thermal shock and cycling, including live steam, hot washdowns, and the surface does not support the growth of bacteria.

WATER AND MOISTURE TOLERANCE

Handles up to 15 lbs of water vapor transmission and over 97% concrete internal RH. The flooring functions as a vapor mitigation topping system.

THICKNESS

Typical 1/4 inch (6 mm)

SUBSTRATES

Concrete, structurally sound toppings including ceramic, quarry tile, brick, polymer modified screeds.

SURFACE PREPARATION

To be assured of maximum adhesion and properties from E P Floors' flooring products the correct surface preparation is essential. Please refer to technical data sheet "Surface Preparation".

FOOD SAFETY CERTIFICATION

Puma-Crete® systems are certified and warranted by EPF to meet minimum standards for USDA, SQF, IFS, FSSC2200, and BRC inspections/standards.

APPLICATION CONDITIONS

60-85°F (16°-29°C) Best results are achieved at 70°F (21°C). For job site temperature below 60°F, or above 80°F, consult EPF for information on extending working time.

APPLICATION

Two coat system. Includes a 1/4 inch screeded, cementitious urethane mortar, and a polymeric lock coat which provides an easy to clean, medium to high gloss, attractive surface finish. Top Coat of 2 component polymeric, high gloss coating.

FINISH COAT / SEALER

Puma-Crete® Topcoat: This top coat is provides enhanced gloss, cleanable and stain resistant surface. It is applied by squeegee and roller.

PACKAGING

Puma-Crete HFB® is manufactured in pre-measured, easy to use units.

TROWELED SCREED

Part A: 1 gal container resin liquid (3/4 gal)
Part B: 1 gal container hardener liquid (3/4 gal)
Part C: 1 bag aggregate (55 lb)
Broadcast Silica 50 lb bag

FINISH COAT

Part A: 10 gal
Part B: 5 gal

COVERAGE RATES

1/4 inch one unit = 35 ft²
6mm one unit = 3.25 m²

MAINTENANCE

Regular cleaning of the applied system is recommended in order to maintain slip resistant properties and cosmetics. Normal cleaning agents (such as Simple Green) w/ standard auto floor scrubber. *Note: brush or high pressure hose required for rough texture finish, if required.*

CURE SCHEDULE (70 deg F)

Puma-Crete HFB®: 12 hours foot traffic, 24 hrs full cure *

CHEMICAL RESISTANCE

Excellent resistances to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents. Please refer to Puma-Crete HFB® chemical resistance guide.

COLORS AVAILABLE

Standard colors are: Red and Gray *Premium colors available, upon request.*

TECHNICAL DATA

Compressive strength: ASTM C579 8,820 psi
Tensile strength: ASTM C307 4,785 psi
Flexural strength: ASTM D790 9,840 psi
Shear Strength: ASTM D732 4,965 psi
Abrasion resistance ASTM C779 (method A) .020 in @ 60 min

HEALTH AND SAFETY

This is a water based and 0 gram VOC/Liter product system. Please read the material safety data sheets, for further detailed information on safe handling and use of this product.

SHELF LIFE: 1 year from date of manufacture (un-opened).

TECHNICAL ADVICE

For further information on this or any other Puma-Crete® product, please contact our Customer Care Department at 1.800.808.7773 USA. Outside USA: 1.413.283.5164

CONDITIONS OF USAGE:

Installation of all products purchased must be by professional installers periodically published by EPF or otherwise approved by EPF in writing. Modification to any of EPF's products voids the warranty. The installer shall maintain a written contemporaneous record of field conditions (including, without limitation, surface and atmospheric conditions, usage rates, and lot numbers of products installed). EPF reserves the right of inspection of any installed product, installation and maintenance records and records of field conditions and may conduct additional testing as is reasonably required to investigate any warranty claims. Warranty shall only apply for products or materials that have been paid for full. This writing constitutes the sole and only agreement of warranty relating to EPF products.



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