



PUMA-CRETE ECO®



Heavy Duty, Monolithic, Industrial Flooring

Technical Datasheet

rev. 02.01.18

DESCRIPTION

Puma-Crete ECO® is a heavy duty floor with matte finish, available in smooth or orange peel texture. It is a non toxic, urethane based, screeded floor, designed to provide excellent resistances to abrasion, chemical attack and other physical aggression, and is designed for industrial facilities utilizing forklifts and other types of heavy loads with commonly used rubber wheels.

COMPOSITION

Water dispersed polyurethane resin system combined with graded silica aggregates.

APPEARANCE

Matte finish. Orange Peel, texture
Slip Resistant: Meets ADA Standard - Coefficient of Friction(.6)
Surface is easy to clean with using automatic floor scrubbers.

DURABILITY

Resistant to impact, abrasion, and heavy loading from forklifts, pallet jacks and carts, commonly found in industrial facilities.

WATER AND MOISTURE TOLERANCE

Handles up to 15 lbs of water vapor transmission and over 98% concrete internal RH. The flooring functions as a vapor permeable, mitigation system.

THICKNESS

1/4 inch (6mm) to 3/4 inch (18mm).

TYPICAL APPLICATIONS

Industrial manufacturing, warehouse & distribution facilities.

SUBSTRATES

Concrete, structurally sound toppings including ceramic, quarry tile, brick, polymer reinforced screeds. Fiberglass reinforcement of substrate may be required, for some customized applications, such as asbestos encapsulation.

SURFACE PREPARATION

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

STORAGE, MIXING & APPLICATION

The storage, mixing and application conditions can affect the quality of the finish produced. Materials are freezable, and therefore must be stored above 35°F. Optimum storage and application temperature is 70°F.

APPLICATION CONDITIONS

(60-80°F) Ideal working temperature is 70°F. For job site temperature below 60°F, or above 80°F, consult EPF for information on application.

APPLICATION

Screeded at specified thickness, rolled with loop (textured) paint rollers. Materials are applied in one pass.

PACKAGING

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

Part A: 1/2 gal container Resin liquid

Part B: 1/2 gal container Hardener liquid

Part C: 1 bag aggregate

Pigment: 170 gram (6 fluid oz) powder pigment, per unit

COVERAGE RATES

(1/4 inch) one unit = 20 ft² 2.25m² @ 6mm
(1/2 inch) one unit = 10 ft² 1.10m² @ 12mm

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.

CURE SCHEDULE (70°F)

Puma-Crete ECO® 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.

COLORS AVAILABLE

Standard color is: **Black**

Premium colors available, upon request.

TECHNICAL DATA

Compressive strength: ASTM C579 9,620 psi
Tensile strength: ASTM C307 4,900 psi
Flexural strength: ASTM D790 10,200 psi
Shear Strength: ASTM D732 5,100 psi
Abrasion resistance: ASTM C779 (method A) .019 in @ 60 min

HEALTH AND SAFETY

This is a water based emulsion, and 0 gram VOC/Liter product system. Please read the 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 technical support department at (800) 808-7773 USA. Outside USA: 1-413-283-5164

SEALER (OPTIONAL)

Puma-Crete TS® sealer: non-strippable sealer; renews the finish Puma-Crete ECO® (*matte finish*) ** requires diamond grind surface prep, prior to application

COMPOSITE SYSTEM (OPTIONAL)

Puma-Crete ECO/C® may be installed over an existing suitably adhered floor, without the need for grinding or abrading the surfaces.

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 in full. This writing constitutes the sole and only agreement of warranty relating to EPF products.



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