

# PUMA-CRETE ECO®

Heavy Duty Industrial Flooring  
Technical Datasheet



## DESCRIPTION

PUMA-CRETE ECO® is a heavy duty urethane based, screeded floor. It is designed for industrial facilities utilizing forklifts and other types of heavy loads with commonly used rubber and plastic wheels.

## COMPOSITION

Water dispersed, non-toxic polyurethane resin system combined with graded silica aggregates.

## APPEARANCE

SHEEN: Matte or Semi-Gloss option.  
TEXTURES: Smooth, "orange peel", and other texture options.  
Slip Resistant: Meets ADA Standard - Coefficient of Friction (.6)  
Surface is easy to clean.

## DURABILITY

Resistant to impact, abrasion, heavy loading and other physical aggression from fork trucks, pallet jacks and carts commonly found in industrial facilities.

## WATER AND MOISTURE TOLERANCE

Handles up to 15 lbs of water vapor transmission and over over 98% concrete internal RH. The flooring functions as an effective concrete moisture mitigation system.

## THICKNESS

Typical 1/4 inch (8mm) to 3/4 inch (24mm)

## SUBSTRATES

Concrete, structurally sound toppings including ceramic, quarry tile, brick, polymer concrete underlayment. Other structurally sound substrates may be suitable, based upon results of custom laboratory testing of the materials for suitable adhesion. Fiberglass reinforcement of substrate may be required, for some customized applications, such as asbestos encapsulation.

## APPLICATION

PUMA-CRETE ECO® is installed by certified applicators throughout the U.S.A.

## SURFACE PREPARATION

To be assured of maximum adhesion and properties from PUMA-CRETE ECO® resin products the correct surface is essential. Please refer to technical data sheet "Surface Preparation".

## STORAGE, MIXING & APPLICATION TEMPERATURE

The storage, mixing and application conditions can affect the quality of the finish produced. Materials are freezable, and therefore must be stored above 35 deg F. Optimum storage and application temperature is 70°F. *note: for job site temperature below 60°F, or above 80°F, consult technical support for information on extending working time.*

## CURE SCHEDULE (70 deg F)

12 hours (foot traffic), 24 hrs full cure (heavy traffic)

## PACKAGING

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

- Part A:** 1 container Resin liquid
- Part B:** 1 container Hardener liquid
- Part C:** 1 bag aggregate

## COVERAGE RATES

(1/4 inch) one unit = 20 ft<sup>2</sup>      2.25m<sup>2</sup> @ 8mm  
(1/2 inch) one unit = 10 ft<sup>2</sup>      1.10m<sup>2</sup> @ 12mm

## SPECIFICATION DETAIL

Please refer to Engineering/Architectural Details.

## 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. Waxing may be employed if desired, but not required.

## CHEMICAL RESISTANCE

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

## COLORS AVAILABLE

Standard colors are: **Gray, Dark Gray, Charcoal, 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

PUMA-CRETE ECO® 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).

## WARRANTY

20 years (refer to PUMA-CRETE ECO® warranty terms and conditions)

## 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

## TOP COATS (OPTIONAL)

PUMA-CRETE TS® top coat/sealer - non strippable top coat; renews the finish on Puma-Crete ECO® (*semi-gloss finish*).

## COMPOSITE SYSTEM (OPTIONAL)

PUMA-CRETE ECO/C® is a fiberglass reinforced floor, which may be installed over an existing suitably adhered floor, without the need for grinding or abrading the surfaces. This system is designed for light cart and foot traffic only.

## CONDITIONS OF USAGE:

Installation of all products purchased must be by professional installers periodically published by PUMA-CRETE or otherwise approved by PUMA-CRETE in writing. Modification to any of PUMA-CRETE'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). PUMA-CRETE 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.

