



DESCRIPTION

301-SLB PumaCRETE® is a highly flowable, slurry & silica broadcasted urethane cement floor. This medium duty floor is available in textures from smooth to rough/anti-slip. It is water-based very low odor, easy-to clean, designed to provide excellent resistance to abrasion, chemical attack and other physical aggression. It is designed for manufacturing facilities including food & beverage processing. Features include resistance to medium duty traffic from forklifts and material handling equipment, chemicals and wet conditions.

COMPOSITION

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

APPEARANCE

Medium to high gloss finishes available. Surface is watertight and easy-to-clean. *Textures available include:* smooth, light, medium, or rough* *note: Rough texture requires scrub brushes/ 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 hot washdowns, a wide variety of industrial chemicals and the surface does not support the growth of bacteria.

WATER AND MOISTURE TOLERANCE

Handles up to 25 lbs of water vapor transmission and 99% concrete internal RH * (at 1/4 inch thickness).

THICKNESS

Typical 1/16 to 1/4 inch thickness

SUBSTRATES

Concrete, structurally sound toppings including ceramic, quarry tile, brick, and polymer modified screeds such as Rapid Set (cement-all).

FOOD SAFETY CERTIFICATION

Certified and warranted 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 PumaCRETE® tech support for information on extending working time.

APPLICATION

301-SLB PumaCRETE® is a two coat system. Includes a self-leveling, cementitious urethane slurry (base coat), and a polymeric lock coat. The surface has an easy to clean, medium to high gloss, and attractive finish. Top Coat is a 2-component polymeric, high gloss coating. Apply using trowels, notched squeegees or cam rake..

LOCK COAT / Top Coat

107-PumaPOXY: this polymeric top coat locks in the silica,,provides enhanced gloss, abrasion and chemical resistance, along with an easy to clean, anti microbial finish.

Optional: 108-Polyspartic Topcoat-- cures as low as +20 deg F, and can be driven on with forklifts within a few hours.

CURE SCHEDULE (70 deg F)

8-12 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.

PACKAGING

301-SLB® is manufactured in pre-measured, easy to use units.

BASE COAT / SLURRY (3-component unit + silica broadcast)

Coverage: (rates shall decrease over rough surfaces. Always check your coverage rate during install, to ensure you are getting proper coverage.)

note: (finished floor thickness includes 40/60 mesh broadcast, unless otherwise stated)

1/16 inch floor (no broadcast)	spread rate: 80-90 ft ² /unit (50-60mil notched squeegee)
1/8 inch floor	spread rate: 80-90 ft ² /unit (50-60mil notch squeegee, #1 cam rake)
3/16 inch floor	spread rate: 60/70 ft ² /unit (1/2" notch squeegee, #2 cam rake)
1/4 inch floor	spread rate: 30 ft ² /unit (#3 cam rake)
5/16 inch floor	spread rate: 20 ft ² /unit (#4 cam rake)

RESIN: 1 pre-measured container 401-SLB/HFB resin

HARDENER: 1 pre-measured container 401-SLB/HFB hardener

AGGREGATE 1 bag (25 lb) SLB aggregate

note: Up to 1 gal of 40/60 mesh silica may be added per unit, for enhanced body and slightly increased coverage.

BROADCAST SILICA 40/60 mesh or 20/40 mesh * 50 lb bag

*20/40 recommended for areas w/ oils, detergents/foams usage.

TOP COAT 107-PumaPoxy

Part A: 1 or 5 gal containers

Part B: 1 or 5 gal containers

Coverage: 110-150 ft² /unit *

* **note:** Coverages shall vary depending on application and contour of substrate. Condition materials to 70 deg F, prior to use, for best performance.

MAINTENANCE

Regular cleaning of the applied system is recommended to maintain slip resistance and appearance. See *PumaCRETE Cleaning Guide*.

COLORS AVAILABLE

Standard colors are: Tile Red, Gray, Blue

Additional colors available; see Puma-Crete color chart.

TECHNICAL DATA

Compressive Strength	ASTM C579	8,820 psi
Thermal Distortion	Passing up to	270 dF
Therm. Coeff. of Therm. Expansion	ASTM C531	1.5x10e5
Density	ASTM C905	130 pcf
Water Absorption	MIL-PRF-3134	0.64%
Hardness Durometer "D"	ASTM D2240	85-90
Adhesion 100% failure in concrete	ASTM D4541	400psi
Flammability-Critical Radiant Flux	ASTM E648	1.07 watts/sq cm
Flammability	ASTM D635	Self Extinguishing
Tensile strength:	ASTM C307	4,785 psi
Flexural strength:	ASTM C580	9,840 psi
Shear Strength	ASTM D732	4,965 psi
Abrasion resistance (method A)	ASTM C779	.020 in @ 60 min
Impact Strength	ASTM D4226	>160 in-lb
VOC	ASTM D3960	.083 lb/gal
Resistance to Fungi Growth	ASTM G21	Rating of 1, passes
Coefficient of Friction		> 0.60

HEALTH AND SAFETY

Water based 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).

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 full. This writing constitutes the sole and only agreement of warranty relating to PUMA-CRETE products.