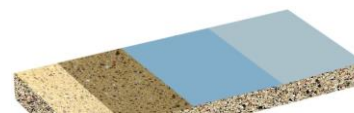


Technical Datasheet



DESCRIPTION

112-pumaESD-c is very low odor, static conductive, high performance urethane coating. 112-pumaESD-c features a non-yellowing, satin finish, and is available in two textures and a variety of colors.

The **112-pumaESD-c** system typically consists of 2 layers, including an insulative primer coat (103-pumaPOXY WB primer or 107-PumaPOXY), and 112-pumaESD topcoat. For the ultimate in durability, 112-pumaESD-c is applied over a base layer/topping of 301-SLB and 107-pumaPOXY (also called the 301-ESD system).

USES:

112-pumaESD-c is conductive. It can be installed in several different environments where the damaging effects of electrostatic discharge (ESD) cannot be tolerated, including industries such as Electronic Assembly, Data processing, Military/ Aerospace, Hazardous Industries (dust or explosion hazards), and AGV areas.

ADVANTAGES:

- Extremely low, non-offensive odor.
- Resistance is not affected by concrete moisture levels.
- Consistent resistance to ground, without requiring a conductive ground plane primer.

ELECTRICAL PROPERTIES:

CONDUCTIVE: 75,000-300,000 ohms resistance 112 pumaESD-c NFPA99 and DoD 4145.26M compliant

Meets all recommendations set forth in ANSI/S20.20-2014 including:

- Static dissipative and conductive ranges in accordance to values defined in test method EOS/ESD Association ESD STM S7.1-2005 and ANSI/ESD STM 97.1 and STM 97.2
- Body Voltage Generation (BVG) <15 volts with conductive footwear.
- Dissipates a 5000-volt charge to 0 volts in less than 0.1 seconds
- Maintains ESD properties throughout the thickness of the applied coating and is not dependent humidity for proper conductivity (*unlike carbon fiber systems*)

NOTE: To assure proper contact to floor surface, persons or vehicles in the area must be protected with ESD footwear and/or ground straps.

REPAIRABILITY: The lack of dependence on conductive fiber and ground plane primers allows this system to be repaired without sacrificing electrical performance.

DURABILITY

Resistant to abrasion and other physical aggression of pallet jacks and carts commonly found in testing and assembly facilities.

COMPOSITION

Non-toxic static dissipating, polyurethane resin system combined with glass bead aggregates.

APPEARANCE

Satin finish, Surface is easy to clean.

Slip Resistant: Meets ADA Standard - Coefficient of Friction (.6)

APPLICATION

112-pumaESD-c is installed by certified applicators throughout the U.S.A.

SURFACE PREPARATION

To be assured of maximum adhesion and properties from any PumaCRETE® 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. Optimum storage and application temperature are 70°F.

CURE SCHEDULE (70 deg F)

24 hours (foot traffic), 36 hrs Full cure (heavy traffic)

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/ auto floor scrubber. See the PumaCRETE® cleaning guide.

CHEMICAL RESISTANCE

Excellent resistances to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents.

COLORS AVAILABLE

Standard colors: Std color is Medium Gray (also available in 7 additional colors—see PumaCRETE® color chart.

WARRANTY

5 years (refer to PumaCRETE® ESD warranty terms and conditions)

MATERIAL PROPERTIES*:

Properties	Test Method	Results
Flash Point	ASTM D3278	187 °F (86°C)
Volume Solids (mixed)	ASTM D2369	75%
Mixed Viscosity	ASTM D2196	300-500 cPs
Dry Time	ASTM D5895	Tack Free 8 hr Dry 16-24 hr Full Cure 7-14 days
VOC	ASTM D3960	< 250 g/l Pigmented

CURED PROPERTIES*:

Properties	Test Method	Results
Abrasion Resistance Tabor CS-17, mg loss/1000 cycles/1000g mass	ASTM D4060	25 mg
Coefficient of Friction-COF James Test	ASTM D2047	0.55 0.65(w/GLOSS GRIP)
Tensile Strength	ASTM D2370	6160 PSI
Elongation	ASTM D2370	8%
Impact	ASTM D2794	140 in.lbs Direct & Reverse
Hardness (Pencil)	ASTM D3363	2H
Dry Film Thickness	at 4 mils WFT	3 mils

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.