

112c PumaESD (conductive)

Mix and Application Video: <https://www.youtube.com/watch?v=MhjdzWHmn3M>

TEMPERATURE AND HUMIDITY: Materials must be stored at 65°F (18°C) and 80°F (26°C).

70 deg F is the optimal temperature, for storage, mixing and application.

During the application and cure of the coating, the substrate temperature, material temperature and room conditions must be maintained between 65°F (18°C) and 80°F (26°C). Relative Humidity (RH) should be limited to 30- 70%. DO NOT apply coatings unless the surface temperature is more than five degree over the dew point.

APPLICATION EQUIPMENT:

- PPE (personal protective equipment including safety glasses and disposable gloves.
- Spiral mixing blade
- A few clean 5 gal pails for mixing material.
- Variable speed, ½” drill
- High quality, lint free, roller covers- 3/8 inch nap
- Roller frames
- Glass bead (for texture)
- Paint Strainer
- Spike Shoes - optional, but recommended for back-rolling (finish roll) of the floor, for best results.
- Conductive copper grounding tape

UNIT SIZE: 1.8 gal .8 gal white pail of part A, 1.0 gal can of part B

COVERAGE RATE: 3-4 mils (1000 SF / kit)

WORKING TIME: Approx 30 minutes

APPLICATION OF PRIMER COAT: First, apply PumaCRETE primer coat of epoxy, such as 107-PumaPOXY 104 PumaPOXY MB or 103-PumaPOXY WB, following instructions. These materials are spread by squeegee and then rolled. **Within 24 hrs, apply 112c PumaESD top coat (for proper adhesion).** Otherwise, floor must be abraded with 100 grit sandpaper for proper adhesion of next coat.

IMPORTANT: primed surface must be in free of cracks, imperfections, and uniform color. If not, voids and imperfections must be patched and area re-primed. Otherwise, surface will have inconsistent color or finish, due to reflection of defects in substrate.

MIXING 112c PumaESD Top Coat

It is critical to get the entire contents mixed correctly. It is likely that the contents of the white resin pail (112 ESD-Resin) has settled to the bottom of the pail. At times the settle can be quite hard. *To achieve the correct mix:*

1. First pour the free layer of top liquids (112c PumaESD Resin) into a clean 5- gallon mix pail.
2. Then use a putty knife or margin trowel to cut through and lift the settled material from the bottom of the pail and transfer to the 5-gallon pail (careful of splashing, wear safety glasses).
3. With a spiral mix paddle on variable speed drill, first slowly mix the transferred material into a homogenous mixture free of lumps and separated liquid.
4. Increase the speed of the mix paddle as more of the settled material is dissolved into the liquid. (Starting the mix paddle at high speed will likely splash the free liquid out of the pail and alter the final mix.)
5. Once mixture is homogenous, add the entire half pint of color pack, and mix for 1 minute or until the color is uniform throughout.
6. Add the 112c-PumaESD-hardener and mix for an additional 2 minutes at medium speed.
7. Add 5 fluid ounces glass bead, and re-mix for 30 seconds.
7. Pour mix thru paint strainer, into clean pail.

APPLICATION of 112c PumaESD Urethane

Note: 112c PumaESD must be pan rolled and NOT squeegeed. Using a squeegee will produce lines of aggregate that will not roll out evenly.

It is recommended to have minimum 2 men rolling (3 for 5000 sf or more).

- Apply to the floor surface using pan and roller, and quality 3/8nap roller (phenolic resin core, Purdy or equal).
- Pour mixed material into a roller pan, for each roller.
- Dip and roll the coating evenly. Care should be taken to overlap and cross lap. SPREAD THE MATERIAL evenly with V-shaped cross passes. MAKE SURE THE FLOOR HAS JUST ENOUGH COATING TO COVER EVENLY. Dry roll to remove any excess material. Excess material will lessen the conductivity, affect the electrical properties. cause the floor to dry unevenly, could cause the floor to blister, especially in high humidity. Insufficient material will cause the floor to look non-uniform. LEVEL THE AREA with straight passes that cross the initial material paths.
- THIN, EVEN COVERAGE WILL ACHIEVE BEST RESULTS.

One coat of 112c PumaESD is all that is required to achieve desired ESD properties.

DRY TIME:

Allow 36 hours cure time for traffic to resume, and grounding of the floor.

GROUNDING INSTRUCTIONS

See PumaCRETE “ESD Floor Grounding Instructions”.

CLEANING/MAINTENANCE

See PumaCRETE “Floor Cleaning and Maintenance” instructions for new floors.