



Petra ESD Epoxy Flooring System

PRODUCT DATA

PRODUCT DESCRIPTION

Petra ESD Epoxy Floor System has three layers :

Workhorse 7000 Primer coat: A two component 100% solids epoxy primer consisting of epoxy resin and curing agent. (When installing Petra ESD Epoxy System over Petra's Power Trowel 6500 Mortar System, Workhorse 7000 is used as the grout coat.)

Conductive Ground Plane: A water based, two-component, super conductive ground plane consisting of epoxy resin and curing agent.

Conductive or Dissipative Topcoat: A two-component (or three-component depending on thickness of top coat) 100% solids epoxy consisting of epoxy resin, curing agent, and fine silica aggregate.

Petra ESD Floor System can be designed to provide electrical properties from conductive to static dissipative ranges upon customer request. This ESD Epoxy Flooring System is available in multiple thicknesses from 10 mils to 90 mils thick. Thicker systems can be formulated upon customer request

Packaging

One kit of Petra ESD Epoxy System consists of:

- 3 gallons of Workhorse7000 part A.
- 1 gallon of Workhorse 7000 part B.
- 4 1/2 gallons of Conductive Ground Plane part A.
- 1/2 gallon of Conductive Ground Plane part B.
- 3 gallons of Petra ESD Topcoat Part A.
- 1 gallon of Petra ESD Topcoat Part B.

Thicker systems are achieved with a higher-build topcoat finish. For topcoats of 50 mils or greater, fine silica aggregate (sugar sand) is added: 2 parts sand, to 3 parts A, to 1 part B.

Features and Advantages

- Outstanding for use on most substrates including new or existing concrete slabs, wooden flooring or even over existing vinyl flooring.
- Extremely durable for use in high traffic areas with heavy forklift traffic and where pallet jacks are used, exhibiting excellent abrasion resistance.
- Multiple colors are available from off white, medium grays, light blue and dark blue. Custom colors available upon customer request.

Product Storage:

Store product in an area so as to bring material to normal room temperature before using. Continuous storage should be between 60° - 90° F. Avoid extreme temperatures and do not freeze.

PHYSICAL CHARACTERISTICS

Compressive Strength.....	6,000 PSI min. (ASTM C-579)
Hardness, Shore D.....	50-80 (ASTM D-2240)
Tensile Strength.....	2,000 PSI min. (ASTM D-638)
Flexural Strength.....	2,325 PSI (ASTM D-790)
Coefficient of Friction Slip.....	0.507
Rate of Burning.....	Self Extinguishing (ASTM D-635)
Indentation @ 2,000 lbs.....	No indentation
Linear Thermal Expansion.....	No Expansion Noted (ASTM E-831)
Water Absorption.....	0.03% (ASTM C-413)
Elongation.....	(70) 3.5%

Temperature Limitations:

- Product temperature conditions: Petra ESD System must be kept at room temperature from 70° - 80° F.

Ambient Conditions:

- Room temperature must be between 68° and 80° F.

Surface Preparation:

Surface preparations will vary according to the type of complete system being applied. Mechanical scarification is recommended until a suitable profile is achieved. For a complete system build higher than 1/8" thick, we recommend a medium-heavy brush blast (CSP 5) or greater (CSP 6-7 depending on thickness). All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry and to ensure that hydrostatic pressure is at an acceptable level. Calcium chloride test kits are available for testing moisture levels (ASTM F 1869-04). This system is not warranted to adhere to substrates with moisture emission levels greater than 3lbs. per 24 hours, per 1,000 s.f.

