

SP.149 – HERMETIC™ PESD Submittal Package

Revised: 04/05/2022 Version: 1.1

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Summary of available HERMETIC™ PESD™ Flooring Systems

HERMETIC™ PESD Flooring is available in the following systems engineered for a variety of specialty applications.

1) ESD-842 (Electrostatic Dissipative Flooring System)

A 100% solids, electrostatic dissipative flooring system that incorporates multiple layers of ESD epoxy.

Contact a local Elite Crete Systems representative for additional help selecting the appropriate flooring system for your needs.

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1. SUBMITTAL OVERVIEW

HERMETIC™ PESD™ is a 100% solids, pigmented static dissipative epoxy flooring system that is self-priming and provides static dissipative properties ($1.0 \times 10^6 - 1.0 \times 10^9 \Omega/\text{square (ohms)}$). HERMETIC™ PESD™ provides an average of 5 V body voltage generation (tested wearing dissipative footwear). Relative indoor

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humidity is not a factor of ohm dissipative performance. Readings are consistent for the life of the floor. Unlike water-based ESD floors, which require increased maintenance, this flooring system was designed for heavy wear and chemical resistance requiring less maintenance.

1.1 – FEATURES:

- Ease of maintenance
- Stain and chemical resistant
- Excellent wear resistance
- 5 V Avg. BVG with dissipative footwear
- Dissipates 5000 V charge in 0.01 seconds
- 100% solids (0% VOC)
- If required, copper grounding strips may be used
- USDA and CFIA compliant

1.2 – USES:

- Electronics assembly
- Laboratories/clean rooms
- Packaging lines
- Pharmaceutical facilities
- Surgical and radiology facilities
- Warehouses and manufacturing

1.3 – Physical Properties

Testing results for each flooring system will vary depending on the individual components chosen to meet the specific project requirements. Performance testing results are available by contacting a technical representative, or by visiting www.elitecrete.com/technical-data/

1.4 – Surface Preparation

Contact your local Elite Crete Systems technical representative for information regarding project-specific preparation and recommended testing.

2. PRODUCTS

The following products are intended to be used as part of a complete flooring system and not to be used as standalone products.

2.1 – Primer Coat Product Options

The products listed in this section can be used for a primer coat. The product being used should be selected based on substrate porosity and in situ relative humidity test results. The primer coat (as pertains to this document only) references the product that is applied directly to a properly prepared concrete substrate.

A) E100-VB5™ – EPOXY VAPOR BARRIER

E100-VB5™ Epoxy Vapor Barrier is a high-solids, low viscosity, two-component epoxy primer system designed to reduce or eliminate out gassing bubbles in concrete and seal out water penetration. Excellent impact resistance, chemical resistance, and superior substrate penetration. Outperforms solvent-based sealers and primers.

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Other options may be available for unique substrate conditions. Consult with a local regional manufacturer representative for information about additional options.

2.2 – Base Coat Product Options

The products listed in this section can be used for a base coat. The product being used should be selected based on the chosen system and the performance requirements of the project. The base coat (as pertains to this document only) references the first application of epoxy.

A) E100-PESD™

E100-PESD™ is a 100% solids, pigmented static dissipative epoxy floor coating that is self-priming and provides static dissipative properties ($1.0 \times 10^6 - 1.0 \times 10^9 \Omega/\text{square (ohms)}$). E100-PESD™ provides an average of 5 V body voltage generation (tested wearing dissipative footwear). Relative indoor humidity is not a factor of ohm dissipative performance. Readings are consistent for the life of the floor.

2.3 – Body Coat Product Options

The products listed in this section can be used for a body coat. The product being used should be selected based on the chosen system and the performance requirements of the project. The body coat (as pertains to this document only) references the second application of epoxy.

A) E100-PESD™

E100-PESD™ is a 100% solids, pigmented static dissipative epoxy floor coating that is self-priming and provides static dissipative properties ($1.0 \times 10^6 - 1.0 \times 10^9 \Omega/\text{square (ohms)}$). E100-PESD™ provides an average of 5 V body voltage generation (tested wearing dissipative footwear). Relative indoor humidity is not a factor of ohm dissipative performance. Readings are consistent for the life of the floor.

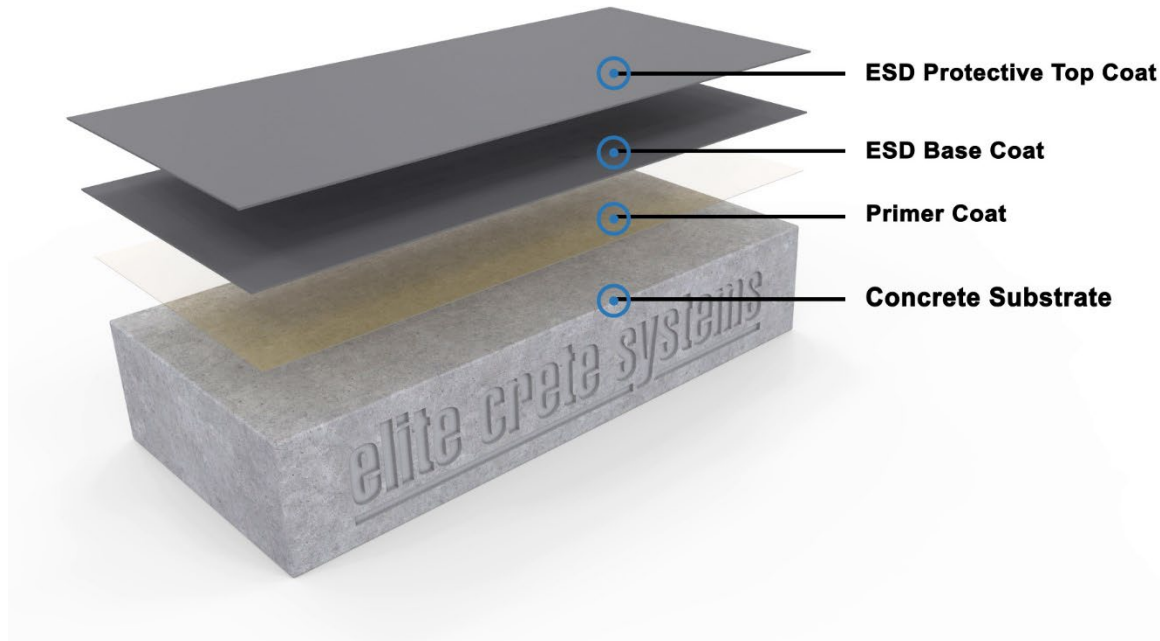
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3. REFERENCE MODEL

3.1 – HERMETIC™ PESD 3D Floor Model



Reference models are for illustration purposes only and do not depict all available options.

4. COLOR OPTIONS

4.1 – HERMETIC™ PESD Color Options

- Medium Gray
- Dark Gray
- Black
- Tan
- Country Blue
- Forest Green
- Brick Red

NOTE: Colors do not exactly match those on the 'Resinous Industrial Coatings' color chart.

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5. MAINTENANCE

5.1 – General Maintenance

If general care is provided and recommended guidelines observed, the decorative appearance and life of all resinous flooring will be extended.

REFER TO DOCUMENT PI.605 FOR ADDITIONAL CARE AND MAINTENENCE INSTRUCTIONS

6. ADDITIONAL APPLICATION OPTIONS

6.1 – Cove Base

E100-PTG™ Cove Base Resin Gel is a 100% solids, thixotropic clear resin designed for use on vertical applications. (For more information, see document: TD.525 - E100-PTG™)

6.2 – Wall Coating

HERMETIC™ CVP Ceramic Wall Coating is a 100% solids, high gloss vertical finish with superior abrasion and chemical resistance. (For more information, see document: TD.767 - HERMETIC™ CVP)

Contact your local Elite Crete Systems technical representative for more information about additional applications options.

