



Energy Shield
Systems

ESS PA-107

PRODUCT DESCRIPTION

ESS PA-107 is a two component environmentally-friendly aliphatic polyaspartic high performance coating for floors. It provides excellent chemical resistance, very high gloss, and UV/Color resistance. The fast dry time allows for a quick return to service

PRODUCT FEATURES

- Protection over concrete, metal, wood and epoxy
- Self leveling and great wetting properties
- UV and color resistance
- Direct to the substrate
- High Hardness
- Low odor
- Smooth glossy finish
- Excellent chemical resistance
- Excellent abrasion resistance
- Excellent impact resistance

TYPICAL USES

- Warehouse
- Showrooms
- Garage floors
- Secondary Containment areas
- Parking ramps
- Hospitals and operation theaters
- Wood decks
- Manufacturing plant
- Walkways
- Locker rooms
- Ship decks
- Waterpark
- Animal shelters & zoo's

TECHNICAL DATA

Colors available:	Clear and Ral colors	Drying times Free:	
Gloss:	High Gloss (85°+)	Dust free:	2 hrs
Solids By Volume:	80%	Tack free:	4 hrs
Solids By Weight:	82%	Pedestrian traffic:	18 hrs
Theoretical Coverage of 1 mil	1283 ft ² Gallon	Vehicle traffic:	48 hrs
D.F.T. at 25 microns:	118 m ² 3.78 liters	Pot life:	20-30 min
Recommended DFT:	6 - 10 mils	Catalyst:	ESS 107C Catalyst
Part A Viscosity:	80 CPS @ 25°C	Mixing ratio:	1:1 by volume 12 months
Part B Viscosity:	400 CPS @ 25°C	Shelf life:	25°C unopened 1 gallon
Flash Point:	45°C (113°F)	Packaging:	5 gallon
V.O.C:	100 g/l for clear		

SPECIAL INSTUCTIONS

Not to be applied when temperature is below 10°C (50°F).
Substrate temperature must be 3°C (5.5°F) above the dew point.
Store in a cool dry area.



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SURFACE PREPARATION

New concrete must be cured at least 28 days prior to application at 24°C (75°F). All cracks to be repaired with approved zero shrinkage repair material.

Substrate must be clean. Remove all oil, grease, dirt, and any contamination using a biodegradable water based cleaner.

In order to achieve better performance for high traffic areas it is necessary to shot blast the surface to create at least 2 mil surface profile.

Contact Instacoat for recommended primer or sealer for concrete with moisture.

MIXING AND THINNING

Agitate each component separately. Mix both components for at least 3 minutes using a drill at low RPM to reduce trapping of air. Only prepare the quantity that may be applied during the pot life. Be sure to scrape sides and bottom of the mixing container to ensure a homogeneous mix.

Thinning is not recommended.

APPLICATION PROCESS

This product can be applied by squeegee, roller or airless spray equipment with 45:1 pump.

Vapor transmission test should be performed on concrete prior to application of this product.

Antiskid: Sprinkle light or medium sand for desired texture. Contact ESS for more details.

Terrazzo finish: To achieve terrazzo finish, sprinkle vinyl color chips when wet, followed by a clear coat.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local ESS representative or visit our website for current technical data and instructions.

DISCLAIMER

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