



Data Sheet | Eco-Smart Epoxy Series WS 107

WS 107 PL 1.1 Polyaspartic is a clear, fast-setting, two component, 100% solids polyaspartic coating specializing in providing a fast turn-around time during application. It may be used as both a top and base coat. Its zero VOC system allows the product to have a balanced pot-life and cure schedule. WS 107 has been specially designed to have an exceptional adhesion to concrete, strong resistance to chemicals and abrasion, while providing flexibility.

Uses

WS 107 seals and waterproofs interior or exterior concrete substrates, such as: residentials (basement and garages), offices, showrooms, stores and warehouses. All the while, protecting substrate from moisture intrusion, solubilized salts, wearing and spillage that may cause it to accelerate degradation. When mixed with aggregates including: silica sand, coloured granules (mica) and plastic flakes, may be used to decorate or to create a durable, skid resistant surface. WS 107 is also great for displaying multicoloured quartz aggregates and to enhance and restore existing concrete substrates.

Features

- Zero VOC
- No odor
- Fast curing and reasonable working time
- Rapid return to service after application
- Easy to use
- Long term durability
- Excellent mechanical properties
- Low viscosity, promoting concrete adhesion
- Antimicrobial
- UV and chemical resistant
- Hot tire resistance similar to solvent-borne coatings
- Produces an easy to clean, smooth surface free of any imperfections
- Exceptional mechanical properties

Suggested System Components

WS 107 is designed to be used in the absence of primer on porous concrete structures. Basecoats are typically applied at a 6-10 mils film thickness. Intercoats and topcoats for high build systems are applied at the same rate. Within the re-coat window, WS 107 may be applied over solvent based or solvent free primers from a different chemistry. This product may be thinned using Butylacetate up to 10% by volume.



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Technical Data

<i>Description</i>	<i>Test Method</i>	<i>Results</i>
Gloss	ASTM D523	60°; 90+
Impact (in. lbs)	ASTM D2794	Direct: 150 Reverse: 150
Taber Abrasion 1000g load, 1000 cycles, CS-17 wheel	TM-2 Method #9	48.7 mg loss
MEK Double Rubs	ASTM D4541	Softened
Pedulum Hardness	ASTM D	170 sec
Adhesion to Concrete	ASTM D	380 psi
Tensile Strength	ASTM D	8100 psi
Elongation at Break	ASTM D	5.2%
Flexibility	ASTM D	100%

*40 mils coating sample bent at 0° without breaking or tearing.

Product Data

<i>Type</i>	<i>Appearance</i>	<i>Packaging</i>	<i>Density</i>
Part A (Resin)	Clear, colorless, liquid	3.98 kg/ USG 19.89 kg/5 USG	1.09 kg/L
Part B (Hardener)	Clear, colorless, liquid	4.13 kg/ USG 20.64 kg/5 USG	1.09 kg/L
Part A + Part B	Clear coat	2 USG kits 10 USG kits	Mix 1:1 ratio by volume

Limitations

- Avoid applying in direct sunlight in times of increased heat. May result in air bubbling underneath surface, wrinkling, blistering and pinholes.
- Not intended for immersion or below grade applications where moisture may reach underside of coating.
- Polyaspartics also moisture cure. Avoid applying in times of high relative humidity (more than 85%) as it may reduce pot life and working times.
- Do not apply coating thicker than 12 mils film thickness to maintain a suitable cure time in correspondence to the dry to touch time.
- Do not freeze Part A or B.
- Apply over a completely dry substrate. Water reaction with Part B will result in foaming and whitening, diminishing overall appearance.



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Chemical Resistance

Coatings based on polyaspartic esters are not as polyurethanes based on isocyanate polyester chemistry. However, they have comparable chemical resistance to topcoats based on water reducible urethane or hybrid (acrylic-urethane). On Medium-Duty applications such as in residential and commercial, polyaspartic coatings are a great choice due to its rapid curing, low VOC and durable properties.

Garage floor testing reveals common liquids such as gasoline, antifreeze and motor oil have no effect when in contact with coating for 12 hours. Alcohols and ammonia (present in common household cleaners) also have no effect after being in contact for 12 hours.

Substances as MEK or Sulfuric Acid (50%) will soften the coating after 2 hours.

Mixing and Tinting

Clear application — WS 107 may be applied clear. Prepare by accurately measuring 1 part by volume of resin (A) and 1 part by volume of hardener (B) into a clean mixing container. Mix for 2-3 minutes and scrape sides and bottom of mixing container to ensure complete mixing.

Tinted application — WS 103 may also be applied tinted. Prepare by accurately measuring 1 part by volume of resin (A) with the colorant first into a clean mixing container, prior to mixing 1 part by volume of hardener (B) into a the tinted Part A/colorant mixture. Do not change order of addition as the mixture's pot life will consequently be reduced. Do not count the colorants into the volume ratio of the resin (A) and the hardener (B). When mixing tinted WS 107, use 0.5 quarts of colorant per 2 USG of Polyaspartic. With a white colorant use 1 quart/USG of Polyaspartic.

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