



TECHNICAL DATA SHEET

E1200S WATER BASED EPOXY PRIMER

PRODUCT NAME: E1200s WATER BASED EPOXY PRIMER

MANUFACTURER: Penntek Industrial Coatings

STREET ADDRESS: 7850 Lakville BLVD

CITY, STATE, ZIP: Lakeville, MN 55044

INFORMATION PHONE: 724-483-9300

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PREPARED BY: Kyle Baynes

DATE REVISED: 12/28/20

DESCRIPTION

E1200s is a two component water based epoxy coating that exhibits excellent characteristics that rival solvent based products. E1200s has superb chemical resistance, abrasion resistance, and substrate penetration.

RECOMMENDED USE

CONCRETE

ADVANTAGES

Penetrates and seals the surface, leaving a smooth, pinhole and bubble-free coating. Excellent adhesion to a variety of substrates. Good physical properties.

PACKAGING

5-GALLON KIT:

One 4 Gallon of Part A & One 1 gallon of Part B

MIX RATIO 4A : 1B (TWO PART A TO ONE PART B)

PRODUCT STORAGE:

Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degree F. Keep from freezing.



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SURFACE PREPARATION

General: Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). 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 has an appropriate vapor barrier. Use a moisture meter with a reading of less than 6 so that the substrate does not show signs of eventual hydrostatic pressure problems that may later cause disbanding. However, this product can be applied to a damp floor as long as there are not standing puddles.

MIXING

This product comes pre-packaged by weight. Kits should be mixed in their entirety. If partial kits are to be used, refer to the front of this technical data for proper weight mix ratios. After the two parts are combined, mixes well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. This product is an emulsion product and should be mixed well before using

APPLICATION

APPLICATION TEMPERATURE: 55-90 degrees F with relative humidity below 75%

The mixed material can be applied by brush or roller. Maintain temperatures within the recommended ranges during the application and curing process. Apply material with relative humidity within the parameters shown on the technical data. When the end of the pot life has been reached, you will find that the material becomes hard to apply and will actually tend to roll back up onto the roller. Do not try to continue application when the coating has reached this step. Applications made at different times with differing environmental conditions, may show slight variations in gloss.

RECOAT OR TOPCOATING

If you opt to recoat or topcoat this product, you must first be sure that all of the solvents and water have evaporated from the coating during the curing process. The information on the front side are reliable guidelines to follow. However, it is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to topcoating or recoating. A standard type detergent cleaner can be used to remove any blush. Many epoxy overlays and coatings as well as urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product.



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SOLIDS BY WEIGHT:

Mixed = 53% (colors); 45% (clear); (+, - 2%)

SOLIDS BY VOLUME:

Mixed = 41% (colors); 36% (clear); (+, - 2%)

VOLATILE ORGANIC CONTENT:

Colors = 1.01 pounds per gallon (mixed) (regulatory VOC = 175g/l)

Clear = 1.0 pounds per gallon (mixed) (regulatory VOC = 230g/l)

STANDARD COLORS:

Off white, light gray, medium gray, tile red, beige, and amber clear. NOTE: The clear (gardner 11) is not water clear and is not suitable for topcoating over previously color coated floors. The clear is suitable as a primer or concrete sealer only.

RECOMMENDED FILM THICKNESS:

5 -7 mils per coat wet thickness (yields 2-3 mils dry)

COVERAGE PER GALLON:

229 to 320 square feet @ 5-7 mils wet thickness

PACKAGING INFORMATION

2 gallon and 5 gallon kits (volume approx.)

MIX RATIO:

Colors= 8.55# part A (.80 gallons, approximate) to 1.75# part B (.20 gallons, approximate)

Clear= 6.55# part A (.80 gallons, approximate) to 1.90# part B (.20 gallons, approximate)

SHELF LIFE:

1 year in unopened containers

FINISH CHARACTERISTICS:

Satin gloss (40-80 at 60 degrees @ glossmeter)

ABRASION RESISTANCE:

Taber adrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 54 mg loss

IMPACT RESISTANCE:

Gardner Impact, direct = 50 in.lb. (passed)

FLEXIBILITY:

No cracks on a 1/8" mandrel

ADHESION:

425 psi @ elcometer (concrete failure, no delamination)

VISCOSITY:

Mixed = 900-1200 cps (colors); 400-900 cps (clear) (typical)

DOT CLASSIFICATIONS:

Not regulated



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CURE SCHEDULE: (70F)

pot life - 1 gallon volume 1.0 - 1.5 hours

tack free (dry to touch)..... 5-8 hours

recoat or topcoat..... 7-10 hours

light foot traffic.....16-24 hours

full cure (heavy traffic)...2-7 days

APPLICATION TEMPERATURE:

55-90 degrees F with relative humidity below 75%

CHEMICAL RESISTANCE:

REAGENT	RATING
acetic acid 5%	B
xylene	B
mek	A
gasoline	B
10% sodium hydroxide	C
50% sodium hydroxide	B
10% sulfuric	B
10% hydrochloric acid	B
20% nitric acid	A
ethylene glycol	C

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

PRIMER:

None required

TOPCOAT:

Optional - Many products are suitable as topcoats including multiple coats of this product. For added chemical resistance, color stability or UV stability, topcoat with a suitable aliphatic urethane.