Resins Plus™

Resins Plus RS1210 100% Solids Epoxy Color Coat

Epoxy Binder

Product Data

Description RS1210 is a two component 100% solids epoxy colored coating designed for applications where a high build color coat durable floor is needed.

Yield
Coverage Per Gallon Kit:
55-130 square feet per gallon @ 12-30 mils

Packaging
3 gallon kits (3 gallons net approximately)
15 gallon kits (15 gallons net approximately)

Color
White, off white, light gray, medium gray, tile red, and beige

Mix Ratio
12 pounds (1 gallon) part A to 4.15 pounds (.50 gallons) partB (volumes approx.) (standard colors)

Finish Characteristics
Gloss (75 to 90 @ 60 degrees @ glossmeter)

Shelf Life
1 year in unopened containers

Where to Use

Recommended for a high build topcoat or basecoat on concrete surfaces Product is suitable in many chemical exposure environments.

Primer Apply a suitable water based, solvent based or 100% solids epoxy primer

Topcoat Optional – RS000 HWU Urethane, RS007 Polyaspartic, RS1225 Clear Epoxy or successive coats of RS1210

See full application instructions

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Physical Data

Color	White, off white, light gray, medium gray, tile red, and beige
Mix Ratio	12 pounds (1 gallon) part A to 4.15 pounds (.50 gallons) part B (volumes approx.) (standard colors)
DFT	12 - 30 mils
Finish	Gloss (75 to 90 @ 60 degrees @ glossmeter)
VOC	Less than 2 g/l

Cure Schedule (70°F)

Pot Life	30-50 minutes
Tack Free	5-8 hours
Recoat or Topcoat	8-12 hours
Light Foot Traffic	12-14 hours
Full Cure	2-7 days

Application Temperature

55-90 degrees F

Chemical Resistance	Rating
xylene	C
1, 1, 1 trichloroethane	B
methanol	A
ethyl alcohol	B
skydrol	B
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric acid	C
70% sulfuric acid	A
10% HC1 (aq)	C
5% acetic acid	B

Rating key: NR - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: additional chemical resistance information is available through Plexicoat.

Typical Properties after 5 days

Abrasion Resistance Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 32 mg loss

Compressive Strength
9,100 psi @ ASTM D695

Flexural Strength
5,400 psi @ ASTM D790

Adhesion
450 psi @ elcometer (concrete failure, no delamination)

Tensile Strength
4,800 psi @ ASTM D638

Ultimate Elongation
3.1%

Viscosity
Mixed = 1300-2300 cps (typical)

Gardner Variable Impactor
50 inch pounds direct – passed

Hardness
Shore D = 80

Limitations

Color stability or gloss may be affected by environmental conditions such as high humidity, low temperatures, chemical exposure or exposure to certain types of lighting such as sodium vapor lights.
Colors may vary from batch to batch. Therefore, use only product from the same batch for an entire job.
This product is not UV color stable and may discolor when exposed to UV lighting. Otherwise, the color stability of this product is good. Therefore, a topcoat is optional and dependent on the environment.
Light or bright colors may require a suitable primer or topcoat to achieve a satisfactory hide.
Substrate temperature must be 5°F above dew point.
All new concrete must be cured for at least 30 days prior to application.
Apply a suitable primer before using this product as a coating.
See reverse side for application instructions.
Physical properties are typical values and not specifications.
See reverse side for limitations of our liability and warranty.

For professional use only.

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RS1210 100% Solids Epoxy Color Coat APPLICATION INSTRUCTIONS

PRODUCTSTORAGE: 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. Low temperatures or temperature fluctuations may cause crystallization.

SURFACE PREPARATION: The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil 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; this can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbanding.

PRODUCT MIXING: This product has a mix ratio of 12# part A to 4.15# part B or two parts A to one part B by volume for standard colors. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the primed substrate. Improper mixing may result in product failure.

PRIMING: A suitable primer should be used before applying this product. See the front side of this technical data for primer information. If a primer is not used, more porous substrates may cause outgassing and possible surface defects.

PRODUCT APPLICATION: The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating.

RECOAT OR TOPCOATING: If you opt to recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. However, all previous coats should be deglossed to insure a trouble free bond prior to application of recoats or topcoats. Colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check for epoxy blushes (a whitish, greasy film or deglossing). If a blush is present, it can be removed by any standard detergent cleaner prior to topcoating or recoating. Many epoxy coatings and urethanes as well as multiple coats of this product are compatible for use as a topcoat.

CLEANUP: Use xylol

FLOOR CLEANING: Caution! Some cleaners may affect the color. Test each cleaner in a small area. If no ill effects are noted, you can continue to clean with the product and process tested.

RESTRICTIONS: Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

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