

REZSTONE

Epoxy Floor Systems

TECHNICAL DATA

5748 CHEMICAL RESISTANT COATING

Description:

Rez-Stone 5748 is a hi-build polymer coating used for indoor traffic areas where an extreme degree of solvent or acid resistance must be maintained. Rez-Stone 5748 is well-suited as a stand-alone system or finish coat over various Rez-Stone epoxy overlays and coating systems where added chemical resistance is necessary.

Advantages:

- ✓ Excellent resistance to a wide range of chemicals
- ✓ High solids and hi-build, 10-15 mils per coat
- ✓ Gloss tile-like finish

Limitations:

- ✓ Minimum substrate temperature for application 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply over wet surfaces
- ✓ Do not allow chemical exposure for minimum of 14 days

Packaging:

Unit Size: 1 gallon units, 5 gallon units

Coverage: Minimum 20 mils recommended dry film thickness in two coats

Surface Preparation:

Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, wax, curing compounds, and other bond-inhibiting contaminants by shot blasting, scarification, or other approved mechanical methods.

Mixing:

Mix Ratio: Pre-measured kits. Temperature of material must be between 60°F and 90°F at time of mixing for best application properties. Stir the Part A (resin) component before blending. Add pre-measured container of Part B and mix entire contents for three minutes with low speed drill and paddle. After mixing allow an induction time of 15 minutes @ 70°F. Mix only that amount of material that can be used within its applicable pot life.

Application:

Rez-Stone 5748 can be applied directly over properly prepared concrete surfaces or over Rez-Stone epoxy overlayers and sealer systems by using a brush, roller, squeegee, or sprayer. Easiest application can be achieved by spreading with a notched squeegee and back-rolling on spiked shoes. Two coats are required. The second coat can be applied as soon as the first coat is dry enough to walk on, usually 12-16 hours but no longer than 48 hours. Higher working temperatures will shorten pot life and working times.

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritation. If contact occurs, wash affected area with soap and water immediately. If discomfort continues seek medical attention. Always wear suitable protective clothing and use proper safety devices. See respective MSDS for complete details.

Clean-Up:

All tools and equipment should be cleaned before material gels. Use Rez-Stone 1201 epoxy reducer.



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5748 TYPICAL PROPERTIES AND SPECIFICATIONS

Blended Viscosity	3,900 cps @ 70°F
Induction Time	15 minutes @ 70°F
Pot Life	60 minutes @ 70°F
Tack Free, Recoat Time	16 hour @ 70°F
Cured for Foot Traffic	24 hours @ 70°F
Time to Reach Full Chemical Resistance	14 days @ 70°F
Color	Standard gray and custom
Solids, Mixed	% by weight 96± 2 % by volume 90± 2
VOC Level	108 grams/liter (0.9lbs/gal)
Shelf Life	Greater than one year in original unopened package
Storage	Dry, between 50°F and 90°F
Bend Test ¾" Diam. ASTM D522-88	270 degrees
Compressive Strength ASTM C-579	≥14,000 psi
Hardness Test Barcol, ASTM D2583	78-80
Impact Test ASTM D2794	130 in. lbs.
Bond Strength	Greater than concrete
Taber Abrasion, CS-17, 1000g load, 1000 cycles ASTM D4060-90	3.92mg (wt loss)/1000 cycles

CHEMICAL RESISTANCE

Rez-Stone 5748 has good resistance to most solvents, acids, alkali, fuels, grease, salts, and strong detergents. The following information is based on 48-hour, watch glass, spot testing at 20 mils and 48-hour soak test of a 1/8" coupon. All soak tested coupons recorded no weight gain. All spot testing showed no softening of the coating, but in certain cases showed discoloration or loss of gloss. The information is correct to the best of our knowledge. A test area is always recommended to determine actual chemical resistance in critical situations.

Reagent	Affect
Acetic Acid	Discolored
Sulfuric Acid	Discolored
Nitric Acid	Discolored
Phosphoric Acid	Unaffected
Ammonium Hydroxide	Unaffected
Sodium Hydroxide	Unaffected
Tri-Sodium Phosphate	Unaffected
NMP, N Methyl Pyrrolidone	Loss of Gloss
Brake Fluid (Auto)	Loss of Gloss
Gasoline	Unaffected
A-1 Jet Fuel	Unaffected
MEK	Unaffected
Mineral Spirits	Unaffected
Xylene	Unaffected
Beer	Unaffected
Mustard	Unaffected
Milk	Unaffected
Urine	Unaffected
Whiskey	Unaffected
Vegetable Oil	Unaffected

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