

REZSTONE

Epoxy Floor Systems

TECHNICAL DATA

5007 WATER-BASED EPOXY BONDING AGENT

Description:

Rez-Stone 5007 is a two-component, 100% solids, water-reducible, epoxy bonding agent. It is primarily for bonding fresh plastic concrete to properly prepared hardened concrete.

Advantages:

- ✓ Moisture insensitive
- ✓ Water reducible and cleanable
- ✓ Sprayable
- ✓ Excellent adhesion to concrete and most structural materials
- ✓ Solvent free

Limitations:

- ✓ Minimum application temperature 50°F
- ✓ Substrate must be clean and sound
- ✓ Material is vapor barrier after cure

Coverage at Normal 1/4" Thickness:

Prime Coat	175 – 225 Square Feet per Gallon	Rez-Stone 5014 or 5017
Matrix Binder	25 Square Feet per Gallon	Rez-Stone 5014 or 5017
Matrix Aggregate	2 Pounds per Square Foot	Blended Aggregate
Chemical Resistant Topcoat	90 Square Feet per Gallon	Rez-Stone 5078 or 5079

Surface Preparation:

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

Application:

After proper surface preparation, the concrete surface will be primed using Rez-Stone 5017 Primer-Binder using a heavy-duty, medium nap roller. Lightly broadcast, 1 pound per 5 square feet of blended aggregate into the wet primer to help trowel ability. (Note: Matrix may be placed immediately, but do not allow primer to cure for more than 24 hours before placement of overlay.) Blend proportioned amounts of Rez-Stone 5017 Part A and Part B for 3 minutes using mechanical agitation. Load proportioned matrix aggregate into a paddle or screw-type mortar mixer followed by the pre-blended 5017 binder. Mix for 1 minute. Place mixed material onto floor using a screed box or straight edge. Power-trowel the placed matrix for a smooth compacted finish. Allow matrix to cure for 8-10 hours or until tack-free. Once matrix has cured it should be lightly scraped with an ice spud or similar scraping tool and broom swept before topcoating. Roller-apply Rez-Stone 5078 100% solids epoxy topcoat at a rate of 90 square feet per gallon for a lightly-textured finish. If a non-slip finish is needed, a silica or aluminum oxide aggregate may be incorporated into the topcoat.

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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5007 TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Working Time	30-35 minutes @ 70°F
Cure Time: Initial Set-for-Life Traffic	16 hours @ 70°F
Cure Time: Ultimate Cure	7 days @ 70°F
Compressive Strength ASTM C-579	11,000 psi
Tensile Strength ASTM C-307	1,890 psi
Flexural Strength ASTM C-580	4,500 psi
Shore "D" Hardness ASTM D-2240	85
Water Absorption ASTM C-413	0.2%
Percent Elongation ASTM D-638	0.2
Abrasion Resistance ASTM D-4060	0.1 gram
Moisture Vapor Permeability ASTM E96-80	0.06 perms
Thermal Shock Resistance ASTM C-884	Passes
Flammability ASTM D-635	Self-extinguishing
Flame Spread ASTM E-84	Class B
Static Coefficient of Friction ASTM C-1028	0.5 to 0.9 will vary with selected finish
Thermal Coefficient of Linear Expansion ASTM D-696	2.5×10^{-5} in/in/deg F
Impact Resistance MIL-D-3134F	No Indentation
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Electrical Resistivity, NFPA Bulletin #56A	Non-conductive
Color	Available in all standard colors.

CHEMICAL RESISTANCE

Rez-Stone 9500 has good resistance to most common acids, alkali, fuels, grease, salts and strong detergents. The following information is based on 7-day soak testing with 5017 binder and 5078 topcoat. The information is correct to the best of our knowledge. A test patch is always recommended to determine actual chemical resistance in critical situations.

Reagent	Affect
5% Acetic Acid	Unaffected
10% Sulfuric Acid	Discolored
5% Nitric Acid	Unaffected
10% Nitric Acid	Discolored
10% Phosphoric Acid	Discolored
10% Hydrochloric Acid	Unaffected
20% Ammonium Hydroxide	Unaffected
20% Sodium Hydroxide	Unaffected
10% Tri-Sodium Phosphate	Unaffected
Brake Fluid (Auto)	Softened
Gasoline	Unaffected
Jet Fuel JP4	Unaffected
Ethyl Alcohol	Softened
MEK	Destroyed
Methyl Chloride	Destroyed
Mineral Spirits	Unaffected
Motor Oil	Unaffected
Xylene	Softened
Soda Pop	Unaffected
Beer	Unaffected
Cola Syrup	Unaffected
Mustard	Unaffected
Milk	Unaffected
Urine	Unaffected
Whiskey	Unaffected
Vegetable Oil	Unaffected
Distilled Water	Unaffected
Salt Water	Unaffected

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