

REZSTONE

Epoxy Floor Systems

SPECIFICATIONS

9500-C CONDUCTIVE 1/4" EPOXY FLOOR TOPPING

Description:

Rez-Stone 9500-C is a nominal 3/16" epoxy-based floor system, which provides excellent static charge-dissipating capabilities. Rez-Stone 9500-C can be used where rapid strength gaining overlayment is required. When applied at 3/16" it is more impact, chemical, and wear-resistant than conventional floor systems. Typically recommended for economical leveling or resurfacing of concrete floor areas subjected to heavy industrial use, where static discharging is necessary.

Advantages:

- ✓ Economical
- ✓ Short downtime
- ✓ Excellent chemical, impact and abrasion-resistance
- ✓ Non-slip finishes available
- ✓ Seamless cove base available
- ✓ Static dissipating
- ✓ Solvent free
- ✓ No VOC's

Limitations:

- ✓ Substrate minimum temperature 50°F
- ✓ New concrete must be at least 28 days old
- ✓ Do not apply to wet substrate

Coverages at Nominal 3/16" Thickness:

Prime Coat	175-225 Square Feet per Gallon	Rez-Stone 5014
Matrix Binder	35 Square Feet per Gallon	Rez-Stone 5014
Matrix Aggregate	1.5 Pound per Square Foot	Blended Aggregate
*Optional Grout Coat	90 Square Feet per Gallon	Rez-Stone 5017-C
Topcoat	90 Square Feet per Gallon	Rez-Stone 5078-C

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, apply a prime coat using Rez-Stone 5014 primer-binder with a heavy-duty 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 5014 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 5014 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 top coating. Install grounding cords if necessary to earth ground every 1,000 square feet before topcoating. Squeegee-apply optional 5017-C grout coat depending on desired finish. Roller-apply Rez-Stone 5078-C 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.



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Clean-Up:

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

9500-C TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Tensile Strength ASTM C-307	1,890 psi
Compressive Strength ASTM C-579	10,500 psi
Flexural Strength ASTM C-580	4,500 psi
Shore "D" Hardness ASTM D-2240	90
Flammability ASTM D-635	Self-extinguishing
Electrical Resistance ASTM F-150-89	Less than 1×10^6 ohms
Percent Elongation ASTM D-638	0.2
Water Absorption % ASTM C-413	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
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 Indention
Bond Strength ACI Committee 403/59-43	350 psi (100% concrete failure)
Working Time	30-35 minutes @ 70°F
<u>Cure Times:</u>	
Initial Set for Light Traffic	16 Hours @ 70°F
Ultimate Cure	7 Days @ 70°F

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