

REZSTONE

2011 Seaman St., Toledo, Ohio 43605 TECHNICAL DATA

4500
Polyacrylate
Blending Polymer

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Description: Rez-Stone 4500 is a specially formulated component polymeric emulsion. It enhances the workability, curing process and physical characteristics of concrete toppings when used as directed. Used to reinforce overlays from ¾" to 2" in depth, this polymer additive offers increased tensile, flexural, and bond strengths when compared with standard air entrained concrete.

Advantages:

- Rapid strength gain
- High bond strength
- High compressive strength
- Economical
- Completely fireproof

Limitations:

- Substrate minimum temperature 45°F.
- Should not be used in areas of strong acid exposure
- Substrate must be clean and sound
- Areas should be closed to heavy vehicular traffic for 72 hours

Packaging: 1-gallon can, 5-gallon pail, and 50-gallon drum are available

INSTALLATION

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

Mixing: Temperature of the material should be the same as ambient air temperature at time of mixing for best application properties. Mix design recommended:

	<u>Ratio by Weight</u>	<u>Cubic Yard Quantities</u>
Cement	1.0	658 lbs
Sand (SSD)	2.49	1644 lbs
Stone (SSD)	1.66	1096 lbs
Latex	0.15 (solids)	24.5 gal
Water	0.37	16.2 gal

Note: Mix can be adjusted with manufacturer's recommendations.

Application: Priming with Rez-Stone 5007 Damp Epoxy Primer is recommended prior to the application or placement of the overlay. Do not allow toppings to dry too rapidly. Do not over trowel the topping, excessive troweling can trap air that may cause blisters. Cover the topping with wet burlap and/or polyethylene for 24 hours, after 24 hours of wet curing uncover the area and allow to open-cure.

TYPICAL PROPERTIES AND SPECIFICATIONS OF CURED SYSTEM

Values are typical for 28 days specimens wet cured for 24 hours and air cured until tested.

Physical Properties:

Polymer Type.....	Styrene Butadiene
Percent Solids.....	48± 1
Weight per Gallon.....	8.6 lbs
Color.....	White milky liquid

Mechanical Properties:

Compressive Strength, 4100 psi.....	7 days
Compressive Strength, 6210 psi.....	28 days
Flexural Strength.....	990 psi
Tensile Bond Strength.....	Greater Than 300
Shear Bond Strength.....	465 psi
Absorption, % Max.....	2 -3%
Fire Resistance.....	Non-Burning

Safety Precautions:

Prolonged or repeated exposure to epoxy materials may cause eye or skin irritations. 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 1201 Epoxy Reducer or Xylene.

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