

REZSTONE

2011 Seaman St., Toledo, Ohio 43605 **SPECIFICATIONS**

**9452
Novolac Epoxy
Broadcast
Floor System**

9452 Novolac Epoxy Broadcast Floor System

Description: Rez-Stone 9452 is a silica aggregate filled epoxy Novolac floor system that provides hi-build protection, up to 1/8" D.F.T., over existing concrete substrates. Rez-Stone 9452 is designed for medium-to-high industrial traffic areas where a high degree of chemical resistance is required. Rez-Stone 9452 incorporates multiple epoxy Novolac base coats with a broadcasted silica aggregate. Use Rez-Stone 9452 where extreme chemical, wear, impact resistance and non-slip is required.

Advantages:

- Excellent chemical resistance.
- Easy application, no trowel marks.
- Varying degrees of non-slip.
- High abrasion, impact resistance.
- Variable thickness upto 1/8".

Limitations:

- Substrate minimum temperature 50°F.
- New concrete must be at least 28 days old.
- Substrate must be clean and sound.
- Do not apply to wet substrate or substrates exhibiting moisture vapor transmission.

Coverage at Nominal

1/8" Thickness:

Prime Coat	175-225 Square Feet per Gallon	Rez-Stone 5517
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5517
Broadcast Aggregate	1 Pound per Square Foot	#25 Mesh Dry Silica
Binder Coat	90 Square Feet per Gallon	Rez-Stone 5517
Broadcast Aggregate	1 Pound per Square Foot	#25 Mesh Dry Silica
Topcoat	90 Square Feet per Gallon	Rez-Stone 5559

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.

Application: After proper surface preparation, apply a prime coat using Rez-Stone 5517 and a flat rubber squeegee or roller. After primer has cured, fill all cracks and holes using Rez-Stone 2610 Epoxy Crack Repair. After patching, apply binder coat of Rez-Stone 5517 using 3/16" notched rubber squeegee. Backroll to help leveling, if necessary. Slowly broadcast a dry #25 mesh silica aggregate so that the sand falls vertically into the binder. Continue to broadcast lightly, making several passes, allowing binder to bleed through the sand before making next pass. Cover completely with sand (to excess) before binder becomes tack-free. After curing of broadcast binder, remove excess sand. Repeat the above process. Topcoat with Rez-Stone 5558, using a steel trowel, flat rubber squeegee or a roller for a more aggressive finish.

**TYPICAL PROPERTIES AND SPECIFICATIONS
OF CURED BINDER**

Pot Life.....	15-20 Minutes @ 70°F
Cure Times: Tack-free set for recoat.....	5 Hours @ 70°F
Initial set for light traffic.....	12 Hours @ 70°F
Ultimate cure.....	7 days @ 70°F
Tensile Strength ASTM D-638.....	4,975 psi
Compressive Strength ASTM C-579.....	15,360 psi
Tensile Elongation.....	6-8%
Bond Strength ACI Committee 403/59-43.....	350 psi (100% concrete failure)
Flammability ASTM D-635-63.....	Self-Extinguishing
Electrical Conductivity.....	Non-Conductive
Water Absorption % ASTM D-570-63.....	0.10
Color.....	Available in all standard colors

TYPICAL PROPERTIES OF CURED SYSTEM

Compressive Strength ASTM C-579.....	13,705 psi
Tensile Strength ASTM D-638.....	2,250 psi
Flexural Strength ASTM D-790.....	5,330 psi

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.

CHEMICAL RESISTANCE

Rez-Stone 9452 has excellent resistance to most acids, alkali, solvents, fuels, grease, salts and strong detergents. The following information is a guide for determining suitable applications of Rez-Stone 9452. The following information is based on tests conducted on totally cured samples immersed for a period of 48 hours. Rez-Stone 9452 is not recommended for constant immersion or long term containment of any chemicals but is recommended for splash spills and short term containment as indicated below.

Up to 10%	Acetic Acid
Up to 50%	Sulfuric Acid
Up to 20%	Nitric Acid
Up to 20%	Phosphoric Acid
Up to 20%	Muratic Acid
Up to 20%	Ammonium Hydroxide
Up to 50%	Sodium Hydroxide
	Tri Sodium Phosphate
	Xylene
	MEK
	Mineral Spirits
	Brake Fluid
	Gasoline
	Fuel Oil
	A-1 Jet Fuel
	Beer
	Whiskey
	Tomato Paste
	Milk
	Vegetable Oil

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