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Rapid Set Clear Industrial Epoxy

<u>Physical Properties</u>		<u>Performance Properties</u>	
Composition:	Two part component epoxy system for use as a sealer, glaze or finish coat for industrial seamless flooring, or as a binder in aggregate filled trowelable or broadcast compounds.	Tensile Strength:	(ASTM D638 8000 PSI)
		Elongation:	(ASTM D638 7%)
		Hardness:	(ASTM – D2240 shore D) 85
Solids Content:	100% solids	Comprehensive Strength:	(ASTM D695) 12,600 PSI
		Impact Strength:	Foot lbs per inch of 5 notch ASTM D-256
Mix Ratio:	3 to 1	Abrasion Resistance	Grams weight loss 29mg loss federal test method standard 406 method 1091
Viscosity:	@ 77 degrees F cps 1,200		
Shelf Life:	12 Months (Unmixed)	Color: Clear	Flashpoint: Cure: 200 F Resin: No response
Pot life:	@ 77 degrees F approximately 15 minutes	Chemical Resistance	
General Information:		Reagent	Rating
Application:	See surface preparation	Acetic Acid 10%	R
1. Binder		Acetone	L
2. Finish Coat		Bleach	R
		Citric Acid 5%	R
		Crude Oil	R
		Ethyl Alcohol	R
		Gasoline	R
		Hydrochloric Acid	R
		15%	R
		Lactic Acid 5%	L
		Methyl Ethyl	R
		Ketone	R
		Nitric Acid 5%	R
		Skydrol	R
		Sodium Hydroxide	L
		50%	R
	R-recommended for continuous service		
	L- limited recommendation, occasional spills		

		Sulfuric Acid 25% Toluene Xylene	
Coverage:	Build coating depends on the application technique, substrate porosity and intended function, but for most applications, an average mill thickness of 10 is 150 sq ft per gallon		
Drying Time:	Should be allowed to cure 6-8 hours at normal room temperature for light traffic, and 2 days for heavy traffic.		
Clean up:	Tools and mixing equipment should be thoroughly cleaned prior to gelation of the product. Typical solvents such as xylene and acetone may be used for cleaning.		
	<u>Important note:</u>		
	<p><u>Safety</u></p> <p>Material Safety Data sheets are available from McKinnon Materials and should be consulted prior to use of the product. This product is intended for the use by professionals only. Keep away from children and those not trained in the use and potential hazards involved.</p>		
	<p><u>Warranty:</u></p> <p>McKinnon Materials warrants its products to conform to its manufacturing standards. McKinnon Materials will replace or refund the purchase price of non-conforming product at the seller's option; such remedy being exclusive of all others and sole remedy available to the buyer. Buyer hereby expressly waives to claim to additional damages. Any claim under this warranty must be made in writing within 7 days of discovery of non-compliance and no later than two years from the date of delivery of product. No representative, distributor or applicator of these products is authorized to modify product, product data or warranty.</p>		



Tinted Industrial Epoxy Flooring Systems Recommendations

Tinted Industrial Epoxy

The following are guidelines for clear industrial epoxy.

Coverage:

- 1st Coat: One coat should be sufficient for floors that are normal. 100 sq. ft. per gallon for the first coat for a normal floor. (It is possible to get more with hotter temperatures and less in colder temperatures; coverage also depends on the amount of pressure that is applied by the applicator and the condition of the floor.)
- 2nd Coat: Required for floors that are damaged. 130 – 160 sq. ft. per gallon. (Greater coverage on the second application is due to the application being on a less permeable surface than the first coat which is absorbed into the concrete.)
- 3rd Coat: Floors that are extremely bad may require a third coat. If the floor was sanded very well, then it is possible that two coats will be sufficient.

It is recommended to pour epoxy onto the floor and use a squeegee to spread throughout floor evenly.

**Coverage for each coat varies depending on the condition of the concrete.

Tinted or Clear Miracle Glaze

The following guidelines are based on coating the top of clear industrial epoxy floors.

- 300 sq. ft. or more per gallon.
- Pour the product out onto the floor first and then roll it for coverage.
- Use a ½” nap roller. (Pour small amounts onto floor at a time and roll.)

Glass Beads (“Non-Skid Grit”) (for Miracle Glaze)

- ¼ cup per gallon.
- Do not use more than ¼ cup per gallon of Miracle Glaze unless the customer is aware of the resultant appearance and requests a greater amount. Too much will result in roller marks as well as a coarser finish.

Paint Chips

Advantages:

- Decorative
- Water Base
- Flexible
- Unlimited Color Selection
- Striped Colors Available
- Various Sizes of Solid Colors
- Color Blend Packaging Available
- Absorb Well
- Remain Flat
- High Tensile Strength
- Remain Loose in Carton
- Fire Resistant
- Resist Ultraviolet Degradation
- 10 Pound Bags Available

Colors:

Standard in-stock colors are black, white, tan, brown. Solid and striped colors are available as purchases directly from manufacturer. 10# minimum order from manufacturer.

Sizes Available:

Solid colors are available in 1 inch, 5/8 inch, 3/8 inch, 1/4 inch, 1/8 inch and "D" (small). Striped colors are only available in the 1 inch size. In-stock sizes are 1 inch and 1/4 inch; other sizes made at time of order.

Packaging: 55 pound/ 10 pound minimum from manufacturer; smaller increments from McKinnon Materials, Inc.

Technical Data: Thickness - 4 to 6 mils.

Size Distribution - Minimum width dimension shall conform to the following distribution, as measured on a 100 gram sample, sifted with 100 shapes through U.S. Standard Sieve Series, 8" diameter, sizes 12.7 mm., 9.51 mm., No. 4 and No. 10. These sieves correspond to a diagonal measure of 3/4", 1/2", 1/4" and 1/8".

Limitations:

There will be a slight variation in the Flake/Chip average size and shape due to manufacturing process. Some dust will be present within each box.

Recommended:

Manufacturer recommends chip compatibility testing in each individual resin system.