

Technical Data Sheet

100 % solids Low Viscosity Epoxy E 1000

E 1000 100% solids low viscosity epoxy is designed to be used as a basecoat mixed with metallic pigments or as a thin mil solid color floor. This material has extreme self-leveling capabilities and provides a smooth and opaque finish. E 1000 offers maximum work time and potlife to make this material ideal for creating a wide range of effects with metallic powders. SC 75 is an optional primer when applying a metallic system. SC 150 or WB 350 are the recommended topcoat over E 1000. Anti skid additives can be added to the topcoat for traction.

BENEFITS AND FEATURES

- Foot traffic in 8-10 hours, 24 hour recoat window
- Easy to mix two A to one B ratio
- Ultra smooth and glossy finish when fully cured
- Excellent chemical and abrasion resistance
- Extreme adhesion to substrate
- Low temperature cure
- Zero VOC's
- Ultra low viscosity improves leveling and effects

USES AND APPLICATIONS

- Showrooms
- Basements
- Garages floors
- Offices
- Restaurants
- Bathrooms
- Entry ways
- Hair Salons
- Car dealerships

PRODUCT PHYSICAL PROPERTIES

Tensile Strength	ASTM D412	3,750
Compressive Strength	ASTM D695	13,000 psi
Impact Resistance	ASTM D2794	215 lbs.
Flexibility (1/8 Mandrel)	ASTM D2794	Pass
Fluxural Strength	ASTM D790	12,500 PSI
Tabor Abrasion Mg Loss	ASTM D4060	28

PRODUCT CURE TIMES

Tack Free Time @ 70 Degrees	6-8 Hours
Hard Dry	8-10 Hours
Foot Traffic	8-10 Hours
Re Coat	24 Hours

ADHESION

ASTMD 4541 Elcometer	
Concrete Substrate Failure	450 PSI
Steel Delamination	600 PSI
Wood Substrate Failure	500 PSI

SURFACE PREPERATION

New concrete must have a 28 day cure and CSP 2-3, prior to coating. In the case of older concrete flooring, remove all surface oils, paint, dust and debris. Prior to coating, make sure the surface is clean, and passes the MVT. Fix any needed repairs using CR Mender or CR Patch and Coat before application.

RECOMMENDED COVERAGE RATES

Coverage rates based on 1600 square feet per gallon at 1 mil in thickness. Coverage rate will vary depending on application and substrate condition. Shot blasted floors will require more product than ground floors.

1/8" notched squeegee and backrolled with 3/8" nap roller
-140-160 sq ft/ gal 10 Mils DFT

1/4" notched squeegee and backrolled with 3/8" nap roller
-100-125 sq ft/ gal 12 Mils DFT

MIXING RATIO OF 2 PARTs A : 1 PART B

Always pre mix each side before use. Standard mix is 2 gallons of part A and 1 gallon part B. Mix with low speed drill for 3 minutes. Pour entire batch of material on floor to keep product from cooking in bucket. Mix smaller batches for cutting edges or smaller projects. Spread with squeegee or roller to desired thickness. Read tech data sheet on metallic powders for quantity and mixing application.

PACKAGING

Available in 3 and 15 gallon kit. Available in 6 standard colors and clear. Product is pretinted for easy application and color uniformity.

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REDUCERS

PB 200 can be reduced with Xylene at no more than 15% of total mixed volume.

STORAGE

All containers should be stored at 40° F to 95° F and be kept tightly sealed and out of direct sunlight. Shelf life of unopened containers is 12 months.

Chemical resistant chart

Acetic Acid 10%	R	Muriatic Acid 10%	R
Acetone	C	NaCl/H ₂ O 10%	R
Benzene	C	Nitric Acid 20%	NR
Brine saturated H ₂ O	R	Phosphoric Acid 10	R
Chlorinated H ₂ O	R	Phosphoric Acid 50	NR
Clorox(10%) H ₂ O	R	Potassium Hydroxide 10%	R
Diesel fuel	C	Potassium Hydroxide 20%	R, Dis
Gasoline	RC	Skydrol	RC
Hydrochloric Acid 20%	R	Sodium Hydroxide 25%	R
Hydrofluoric Acid 10%	NR	Sodium Hypchlorite 10%	R
Hydraulic fluid (oil)	RC	Sodium Bicarbonate	R
Isopropyl Alcohol	R	Sulfuric Acid 10%	R
Lactic Acid	R	Sulfuric Acid >50%	RC
MEK	NR	Toluene	C
Methanol	R	1, 1,1-Trichlorethane	R
Mineral Spirits	RC	Trisodium Phosphate	R
Motor Oil	R	Vinegar/H ₂ O 5%	R
MTBE	C	Xylene	RC

Chemical Resistance: Chart Key

R=recommended/little or no visible damage
 RC=recommended conditional/some effect, swelling or discoloration
 C=Conditional/Cracking-wash within one hour of spillage to avoid affects
 NR=Not recommended
 Dis=discolorative

CLEAN UP

All tools should be cleaned with MEK or Acetone as soon as possible after application.

WARRENTY

Penntek Industrial Coatings warrants to the purchaser of its products that such products are free from manufacturing defect. Penntek Industrial Coatings does not warrant or guarantee the workmanship performed by any person or firm installing its products. Penntek Industrial Coatings obligation under this warranty is limited solely to the original purchaser and solely to the remedy of replacement in kind of any product which Penntek

Industrial Coatings sold which may prove defective in manufacture within one year from date of installation, provided said product was stored correctly and installed within the product's shelf life, by the original purchaser and which Penntek Industrial Coatings examination shall disclose to Penntek Industrial Coatings satisfaction to be thus defective.

Please read material safety data before using product.

Disclaimer:

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