



#32-930 Water Based Epoxy Primer

DESCRIPTION

32-930 is a two component water based epoxy coating that exhibits excellent characteristics that rival solvent based products. It has superb chemical resistance, abrasion resistance, and substrate penetration.

RECOMMENDATIONS

Recommended for priming or coating concrete, wood or masonry. This product can withstand exposure to many common solvents and chemicals.

TECHNICAL DATA

Solids by Weight: Mixed = 45% (clear); (+, - 2%)

Solids by Volume: Mixed = 36% (clear); (+, - 2%)

Volatile Organic Content: Clear = 1.0 pounds per gallon (mixed)

Color: The clear primer is not water clear and is not suitable for topcoating over previously color coated floors. It is suitable as a primer or concrete sealer only.

Recommended Film Thickness: 5 - 7 mils per coat wet thickness (yields 2-3 mils dry)

Coverage Per Gallon: 229 to 320 square feet @ 5 - 7 mils wet thickness

Packaging Information: 2 gallon kit (2 gallon Part A + 2 quarts Part B)

Mix Ratio: Clear= 6.55# part A (.80 gallons, approximate) to 1.90# part B (.20 gallons, approximate)

Shelf Life: 1 year in unopened containers

Finish Characteristics: Satin gloss (40-80 at 60°@ Erichsen glossmeter)

Abrasion Resistance: Taber adrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 54 mg loss

Impact Resistance: Gardner Impact, direct = 50 in.lb. (passed)

Flexibility: No cracks on a 1/8" mandrel

Adhesion: 425 psi @ elcometer (concrete failure, no delamination)

Viscosity: Mixed = 900-1200 cps (colors); 400-900 cps (clear) (typical)

DOT Classifications: Not regulated

CURE SCHEDULE (70°F)

Pot Life - 1 gallon volume	1.0 - 1.5 hours
Tack Free (dry to touch)	5 - 8 hours
Recoat or Topcoat	7 - 10 hours
Light Foot Traffic	16 - 24 hours
Full Cure (heavy traffic)	2 - 7 days

APPLICATION TEMPERATURE

55°F - 90°F with relative humidity below 75%

CHEMICAL RESISTANCE

REAGENT	RATING
acetic acid 5%	B
xylene	B
mek	A
gasoline	B
10% sodium hydroxide	C
50% sodium hydroxide	B
10% sulfuric acid	B
10% hydrochloric acid	B
20% nitric acid	A
ethylene glycol	C

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. **NOTE:** extensive chemical resistance information is available through your sales representative.

PRIMER

None required

TOP COAT

Optional – Many products are suitable as topcoats including multiple coats of this product. For added chemical resistance, color stability or UV stability, topcoat with a suitable aliphatic urethane.

LIMITATIONS

- Color or gloss may be affected by humidity, low temperatures, chemical exposure or sodium vapor lighting.
- Product will yellow in the presence of UV light
- For best results use a 1/4" or 3/8" nap roller.
- Slab on grade requires moisture barrier

- Substrate temperature must be 5°F above dew point.
- All new concrete must be cured for at least 30 days
- Product color will vary from batch to batch. Use only product from the same batch for an entire job.
- Improper mixing or too thick of an application may result in product failure
- Physical properties listed on this technical data sheet are typical values and not specifications.

PRODUCT STORAGE

Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90°F. Keep from freezing.

SURFACE PREPERATION

Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry), we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete has an appropriate vapor barrier. This can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate does not show signs of hydrostatic pressure problems that may later cause disbanding. However, this product can be applied to a damp floor as long as there are not standing puddles.

PRODUCT MIXING

This product comes pre-packaged by weight. Kits should be mixed in their entirety. If partial kits are to be used, refer to the front of this technical data for proper weight mix ratios. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. This product is an emulsion product and should be mixed well before using.

PRODUCT APPLICATION

The mixed material can be applied by brush or roller. Maintain temperatures within the recommended ranges during the application and curing process. Apply material with relative humidity within the parameters shown on the technical data. When the end of the pot life has been reached, you will find that the material becomes hard

to apply and will actually tend to roll back up onto the roller. Do not try to continue application when the coating has reached this step. Applications made at different times with differing environmental conditions, may show slight variations in gloss.

RECOAT OR TOPCOATING

If you opt to recoat or topcoat this product, you must first be sure that all of the solvents and water have evaporated from the coating during the curing process. The information in the curing schedule is a reliable guideline to follow. However, it is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to topcoating or recoating. A standard type detergent cleaner can be used to remove any blush. Many epoxy overlays and coatings as well as urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product.

CLEAN-UP

Use PM solvent

Floor Cleaning

Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

RESTRICTIONS

Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see curing schedule). It is best to let the floor remain dry for the full cure cycle.

See Safety Data Sheet applicable safety warnings and procudeures, as well as protective equipment.