

CEM-DYE

W 100



APPLICATION INSTRUCTIONS: CEM-DYE W 100

MOISTURE VAPOR EMISSION TESTING

All interior concrete floors are subject to possible moisture vapor emission and/or excessive alkalinity that could ultimately cause coating failure. Prior to application, calcium chloride moisture testing should be conducted according to ASTM 1869-04.

SURFACE PREPARATION

Prepare the concrete by acid etching or diamond grinding. Etching must be performed using a floor machine with a nylogrit brush. Use a 3-1 solution of water and muriatic acid. Follow the guidelines listed in the APF Surface Preparation information. Etched concrete must have a profile similar to 120-grit sandpaper. Do not let the etching solution dry on the concrete. Neutralize with a solution of ammonia and water or use APF Super Base Neutralizer. Neutralizing. Rinsing is very important. **Acid residues left on the concrete will interfere with proper bonding of the sealer.**

If diamond grinding is used for surface preparation, it must be conducted thoroughly to open up the concrete. Prepared concrete must have a profile similar to 120-grit sandpaper.

APPLICATION OF CEM-DYE W

Cem-Dye (W) is normally applied at 200-300 sq. ft. per gallon and may be sprayed using a low-pressure solvent resistant sprayer, HVLP or air brush. When using a low-pressure sprayer, always spray in a circular motion to avoid lap lines. The use of water will produce a floor with more variations in tone, while the use of acetone will produce a more monotone finish. A brush can be used for small areas. When brushing, it is best to use water as the solvent. Allow the concrete to completely dry prior to sealing – 2-4 hours if you are using acetone as your carrier and 24 hours for water as your carrier.

APPLICATION OF PRIMER

The primer for this system is Polyurethane 250 or Polyurethane 250 VOC. Apply one coat using a 3/8"-1/2" nap roller. Do not pour the material directly onto the concrete; apply from 5-gallon pail or roller pan. Coverage rate should be 250-350 sq. ft. per gallon depending on the substrate texture. The primer coat may be reduced up to 25% with acetone or xylene. **Never use the satin finish material as a primer; doing so could result in coating turning white.** The curing time between coats will be 2-4 hours depending on conditions.

APPLICATION OF FINISH COAT

The topcoat for this system is Polyurethane 100 or Polyurethane 100 VOC. Apply one coat using a 3/8"-1/2" nap roller. Coverage rate should be 250-350 sq. ft. per gallon depending on the substrate texture. Allow the coating to cure for 48 hours prior to returning to foot traffic and seven days for vehicular traffic.