TOUGH-SEAL
400

Arizona Polymer Flooring

Application Instructions: Tough-Seal 400

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

Surface must be clean, dry and profiled prior to installation of primer. Acceptable methods of preparation are diamond grinding or acid etching. If acid etching, follow APF written instructions. Concrete must have a minimum surface profile ICRI CSP 2, or a texture similar to 120-grit sand paper.

Application of Primer

The primer for this system is Epoxy 400 clear. Apply one coat using a 3/8”-1/2’’ nap roller. It is important to remember that temperature and the volume of material mixed at one time can dramatically effect pot life. Do not mix more material than can be applied in 20 minutes. The coverage rate should be 150-250 sq. ft. per gallon depending on the substrate texture. The primer coat may be reduced up to 5% with acetone or xylene. The curing time between coats will be 8-12 hours, depending on conditions.

Application of Finish Coat

The topcoat for this system is Polyurethane 100,100 VOC or Polyurethane 501. 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.

Application of Optional Polyurethane Topcoat

Once the Epoxy 400 has cured well enough to walk on it, you can apply the polyurethane topcoat as specified. For floors requiring an orange peel/mop-able texture, the floor should be sanded using 60 grit sand paper prior to the installation of the polyurethane.

Mix the specified polyurethane at the ratio on the data sheet for 2 minutes, and then immediately pour a usable amount onto the floor and spread it using a flat squeegee. As soon as the material is spread, back roll using a 3/8th inch nap roller to ensure an even coverage.

The application rate of this coat should be 250-325 square-feet-per-gallon. Over application of the polyurethane could lead to film defects such as bubbles, blisters and overall softness of the topcoat.