

“Airless Spray Equipment” Application Instructions for **KrystalSeal™** Penetrating Epoxy Sealant

SURFACE PREPARATION

Refer to the **KrystalSeal™** *Data Sheet* for product preparation prior to application.

- 1.) The surface to be sealed must be completely clean of all contaminants prior to application.
- 2.) Shotblasting, or any normal industry-acceptable method of concrete surface scarification, may be required to remove any and all chemical stains and deposits, and to open the porosity of the concrete for maximum sealant penetration.
- 3.) Any and all water must be completely evaporated for maximum sealant penetration.

APPLICATION

KrystalSeal™ may be applied with standard *Airless Spray Equipment*, or by *Pour-and-Roll* method (separate instruction sheet).

Equipment & Materials required for *Airless Spray Equipment*: (STORE **KrystalSeal™** at @ 75°F)

- ▶ Clean half barrels, large enough to hold full amount of **KrystalSeal™** being mixed;
 - ▶ Standard **Airless** Spray Equipment, including diaphragm pump rated at @ 3000 p.s.i.; at least one 50' high pressure hose; and a reversible tip with an orifice of @ .020-inches;
 - ▶ Stiff, coarse, outdoor-type pushbroom (expendable);
 - ▶ Methyl Ethyl Ketone (**M.E.K.**) as thinning solvent, for hot weather, or cold weather application;
 - ▶ Lacquer Thinner as cleaning solvent.
- 1.) Pour one (1) or two (2) containers of **KrystalSeal™** *Base Compound* into empty, clean, half barrel (Two 4.67-gal. base kits will yield 14-gal; two 3.33-gal base kits will yield 10-gal).
 - 2.) Thoroughly mix **M.E.K.** into **KrystalSeal™** *Base Compound* until uniform viscosity is achieved. For COLD weather add @ 10% volume M.E.K.; For normal or HOT weather add @ 5% M.E.K.
COLD: to 1-GALLON kit, add 13-ounces M.E.K.;
to 5-GALLON kit, add 2-quarts M.E.K.;
to 14-GALLON kit, add 6-quarts M.E.K.
 - 3.) Now, thoroughly mix proper pre-measured amount **KrystalSeal™** *Curing Agent* into **KrystalSeal™** *Base Compound* until uniform, as outlined on *Base* label and/or *Data Sheet*.
 - 4.) Use an @ ½-horsepower electric drill with an *impeller* mounted on a shaft, to affect proper mixing of at least 5-minutes at moderate speed. Mixed material will begin to heat noticeably.
 - 5.) Pour mixture into 5-gallon bucket for syphon tube feed to airless compressor. 5-gallons of mixed **KrystalSeal™** will cover @ 685 sq.ft.; and 14-gallons will cover @ 2000 sq.ft.
 - 6.) Spray **KrystalSeal™** onto concrete at @ 5- to 6-mil WFT, or until concrete looks very wet, but leave no standing pools of **KrystalSeal™**. Use cross-hatch spray pattern to evenly distribute **KrystalSeal™** material across area to be coated. Overlap each pass 50% to avoid thin areas.
 - 7.) At 75°, **KrystalSeal™** should penetrate concrete within 20-minute, and longer at cooler temps. At that time, use pushbroom to sweep any standing pools to dryer areas of coated concrete.
 - 8.) Repeat procedure for next area to be covered.
 - 9.) For every 10°F drop, the tack time, dry time and cure time will double. Application below 55°F is not recommended. Electric barrel-heating instructions during mixing are available.