

Roll & Brush Application of **TK-100™ Gloss, Hybrid-Polymeric Epoxy** as a Cleanable, Chemical-Resistant **Wall** or **Floor Coating**

SURFACE PREPARATION

Refer to the **TK-100™ Data Sheet** for general product preparation prior to application.

- 1.) The wall or floor surface to be coated must be completely clean of all contaminants prior to application: including peeling or oxidized paint, oil, grease, dust, powder, water, rust, etc. Usually, a light solvent wipe-down is sufficient to remove minor oils and dust from intact floor. Grinding or shotblasting may be required to remove rust, scale, or existing paint. Prepare surface as needed for any standard epoxy coating. New concrete should cure 28-days.

QUALIFIED, PROFESSIONAL APPLICATION RECOMMENDED

Equipment & materials required:

- ▶ Wet Film Thickness (WFT) gauge;
- ▶ Standard roller handle, 6-foot pole, extension pole, and pan application equipment;
- ▶ Solvent-resistant (phenolic) foam or short-nap roller pads;
- ▶ Fine bristle (camel hair) brushes of various widths for trim and cut-in;
- ▶ Acetone, M.E.K., or Xylene as thinning solvent (if needed to improve surface flow);
- ▶ Acetone, Lacquer Thinner, M.E.K., or Toluene as surface wipe-down and cleaning solvent;
- ▶ Proper OSHA protective clothing and activated-charcoal filtered breathing mask;
- ▶ **TK-100™ Data Sheet** for complete coverages and characteristics.

COVERAGE:

Theoretical: 1,200 sq.ft./gal at 1-mil DFT = 240 sq.ft./gal at 5-mil DFT

1st coat (over porous concrete): **150** - 175 sq.ft./gallon at **5-mil DFT** (6-mil WFT);

2nd coat (over non-porous **TK-100™**): **200** - 225 sq.ft./gallon at **5-mil DFT** (6-mil WFT).

APPLICATION:

- 1.) Add amber-clear **TK-100™ Curing Agent** to **TK-100™ Base Compound** at a 1:1 volume ratio. Stir thoroughly by stick or drill-mounted impeller until uniform, or mix by "box" pouring several times from one 5-gallon pail (or smaller) to another. Use a rubber spatula to clear inside of pail.
- 2.) To moderately thin **TK-100™** for a very smooth finish, add up to 6 fluid ounces (5% by weight) Acetone, M.E.K., or Xylene per gallon. Additional solvent may added to thin further, if needed. Thoroughly test-roll mixture to assure desired results. Sometimes only 2nd coat is thinned.
- 3.) After thorough mixing, allow **TK-100™** mixture to "dwell" for 30-minutes (aka "induction time"). Stir again just prior pouring into roller pan. Normal pot life is at least 8- to 12-hours at 75°F. Cover remaining **TK-100™** until needed.
- 4.) Roll-apply a single coat of **TK-100™** to approx. 6- to 7-mil WFT in even parallel passes, overlapping 50% each pass, and cross roll at right angles, to avoid pinholes and thin areas (aka "holidays"). Existing concrete staining may require multiple coats of **TK-100™** to fully conceal stain (See steps 7 and 8). DO NOT re-roll over tacky, partially cured **TK-100™**; apply 2nd coat in approx. 8-hours.

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as Floor / Wall Coating
(continued)

- 5.) Check wet coating thickness with WFT Gauge until feel for proper WFT is achieved: 7-mil WFT will dry to approx. 6-mil DFT; 6-mil WFT will dry to approx. 5-mil DFT; and 5-mil WFT will dry to approx. 4-mil DFT. Overly thick application of **TK-100™** may result in prolonged curing time, causing extended elapse time between consecutive coats.
- 6.) Any new mixing of additional **TK-100™** will require same thinning ratio, mixing instruction, and minimum dwell time of 30-minutes prior to application.
- 7.) Allow approx. 8-hours dry time at 77°F for 1st coat before testing for “light foot traffic” (shoe-less or padded). For every 10°F increase in room temperature, cure time is nearly halved; for every 10°F decrease in room temperature, cure time is nearly doubled.
- 8.) When 1st coat will support “light foot traffic” without marring surface, begin roll-application of 2nd coat. NOTE: Second coat will cover greater area (with same amount of **TK-100™**) than first coat.
- 9.) Allow approx. 8-hours dry time at 77°F before removing tape, stacking, or handling **TK-100™** coated surfaces.
- 10.) Normal foot traffic can resume after 24-hours dry time at 77°F; and wheeled traffic can resume after 36-hours dry time at 77°F. **TK-100™** will reach optimal chemical-resistance and final hardness in 7-days at 77°F.
- 11.) Any cured **TK-100™** coating can be re-coated at any time, with proper surface cleaning prior to new application.

TK-100™ are registered trademark (pending) of:

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