

**APPLYING 1-PART EPOXY (TS-100) TO METAL ROOFS (2/15/07)**

This information has been prepared for use with TS-100 1 Part Epoxy. This system produces a high performance, low film build finish guaranteed for 20 years in residential applications. It is a low VOC low odor system that produces a non toxic film approved for a wide variety of surfaces including all metals. 1-Part Epoxy is often used in combination with TS-160 Accelerator/Hardener is very effective in speeding the dry and cure time as well as hardening and, increasing chemical resistance and durability in high traffic areas or in industrial applications. Our performance guaranty is void without the use of TS-160 A/H in walkways or in industrial venues. Please be sure to follow all directions and labeling instructions.

1. **PREPARATION:** Use a degreaser such as TSP to remove stubborn oil or grease. Rinse thoroughly. Power-washing, sanding or scuffing existing surfaces is recommended but not required on clean well prepared surfaces. Next wash surface with an etching cleaner; strongly recommend TS-695 Etching Cleaner. Our guaranty is void without the proper use of TS-695 Etching Cleaner or the approved equivalent! All surfaces must be etched before proceeding. Mix TS-695 Etching Cleaner on a 1:1 Basis with water, broom or mop in for 15 minutes, rinse thoroughly.

2. **ALLOW TO DRY THOROUGHLY:** Wait at least 48 hours or test for moisture to ensure dryness. If moisture is evident wait until thoroughly dry before proceeding.

3. **APPLY PRIMER COAT:** Approved primers include TS-900 Fabrication Primer is acceptable for use on coated and bare steel surfaces. Use TS-664 Etching Primer on all other surfaces including concrete, fiberglass, plastic, asphalt, composite and aluminum. Primer may be brushed, rolled or sprayed directly onto properly prepared surfaces. Recommend hand brushing the edges then roll the rest. Apply evenly avoiding heavy build up. Allow first coat to dry 12–48 hours before recoating.

4. **APPLY BASE COAT:** Stir 1 Part Epoxy thoroughly. Add ½ pint TS-160 A/H as desired to one gallon of undiluted TS-100 1 Part Epoxy. Stir again thoroughly. Apply evenly avoiding ponding and heavy build up. The recommended Wet Film Thickness (WFT) is 3 MILS. If you will only be applying one coat and wish to apply Cool Roof Beads you will want to broadcast them evenly over the still wet surface as you proceed with this coat. If you will be applying two coats of 1-Part Epoxy apply Cool Roof Beads in next step. Allow to dry minimum of 24 hours before proceeding with second coat.

5. **APPLY SECOND COAT:** Stir 1-Part Epoxy thoroughly. Add ½ pint TS-160 A/H as desired to one gallon of undiluted Epoxy. Stir again thoroughly. Apply evenly avoiding ponding and heavy build up. Recommended WFT is 3 MILS. If you are using Cool Roof Beads you will want to broadcast them evenly over the still wet surface as you proceed. Allow to dry minimum of 48 hours before allowing the uncured to get wet. Wait 48 hours before allowing foot traffic on the new surface.

Direct questions to 360-651-9050 or us online at: [www.topsecretcoatings.com](http://www.topsecretcoatings.com).

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