



SAFE ENCASUREMENT SYSTEMS-MIDWEST

**SPECIFICATION NO. 02-1
DECEMBER 2002**

ENCASUREMENT OF DRAIN PANS AND COOLING TOWER BASINS

INTRODUCTION

SAFE Encasement Systems has a coating procedure for drain pans, cooling tower basins, and other submersible or immersion (under water) applications. It should be noted that only submersion or immersion rated coatings should ever be used in applications where the coating is expected to see partial or complete immersion for any extended period of time. You can expect to see failure due to wrinkling and delamination in a reasonably short period of time if non-submersion rated coatings are used in these applications. In this specification, the surface is first treated to remove all soluble salts that, by catalyzing corrosion, will lead to coating failure. Chlor*Rid soluble salt remover additive to water is used for this purpose. Then SE-110-CI, a corrosion-inhibited version of our primer is used. Only primers tested for performance directly over metal surfaces should be considered. SE-110-CI has exceeded 1500 hours in both humidity and salt spray cabinets over metal surfaces. Finally SE-SUB, the submersible grade topcoat is applied, but only after the SE-110-CI is completely clear, an indication that the drying process is complete enough to allow for over coating with a topcoat that is not designed to breath.

SURFACE TREATMENT: The surface to be coated should be power-washed with a 2% solution of Chlor*Rid soluble salt remover. The power washing should proceed just like a spray-painting operation, to insure the entire surface is contacted directly with the impact of the spray. If power washing is not feasible, the surface to be coated should be scrubbed vigorously with a 5% solution of C*R using a stiff nylon bristle brush. In either case, particular attention should be given to the areas where corrosion is visible, whether it is red rust or the white powdery signs of Zinc, which is indicative of corrosion on a galvanized surface. After the surface is treated, do not rinse or take any additional steps, once it is dry, proceed to the primer step. Wet vacuuming or air-drying with fans to increase drying speed is acceptable.

PRIMING: To the prepared surface apply 10 wft (mils wet film) SE-110-CI. This can be applied via spray, brush, or roller. Allow drying until entirely clear, no visible haze. It should be noted that even when entirely clear, it will still have a surface tack.

TOPCOATING: To the primed surface apply the SE-SUB. This product is a 2-component. Mix each component individually with the propeller attachment to a drill, then mix the measured amounts per the label together until the topcoat base color and the cure oil appearance become the color of the topcoat base. Take care to not cross contaminate the components; you may need as many as 3 stirring propellers. Apply at 10wft. Note this can be spray, brushed, or rolled, but if sprayed you will need to clean the spray equipment with a solvent, making this an unacceptable option for smaller jobs. Allow drying for 1 week before putting into submersion service. If the service this will see in the immediate future will only drop a few drops of water onto the surface, drying for a day or so will suffice.