

# Crown Paint Company

## HI-BUILD EPOXY COATING

### PRODUCT DATA SHEET

**DESCRIPTION** A versatile, fast curing modified two-component epoxy amide that offers high film build, strong bonding strength, and exceptional hardness and resistance to corrosion and stains.

**USES** Steel surfaces that require long-term protection, such as metal walkways, railings, steps, oilfield equipment, storage tanks, and valves. Concrete floors. Countertops.

### TYPICAL PHYSICAL PROPERTIES

<b>Gloss</b>	High
<b>Vehicle</b>	Modified Epoxy
<b>Volume Solids</b>	72 %
<b>Weight Solids</b>	82 %
<b>Theoretical Coverage</b>	Wet Mils 4.5 – 7.0 mils wet
	Dry Mils 3.0 – 5.0 mils
	Coverage 230– 385 sq. ft./ gallon
<b>Dry Times @ 77 F</b>	Dust Free 2 hours
	Recoat 2-3 hours
	Full Cure 7 days

### APPLICATION

<b>Mixing</b>	This is a two-component coating. Thoroughly mix equal parts of epoxy and catalyst, allow mixture to set for 15-20 minutes before applying.
<b>Pot life</b>	8 hours at 68 F
<b>Application Equipment</b>	Brush, Roll or Airless spray using .015-.019 tip.
<b>Application Temperature</b>	Between 50-90 F, maximum humidity 80%, above dew point
<b>Surface Preparation</b>	Steel surfaces must be clean and free of all oil, moisture or residue which can interfere with the epoxy making direct contact with the surface, SSPC-SP2, SSPC-SP3 for normal requirements. Concrete surfaces see attachment.
<b>Thinning</b>	Epoxy Thinner or TS160 for non-spraying applications
<b>Clean up</b>	Epoxy Thinner

# “Floor Coatings”

## SURFACE PREPARATION

Surfaces must be completely clean and free from oils, grease, tire marks, and other surface residue before painting. Fill cracks, holes, or “spalled” areas with suitable non-shrinking patching mixture. If you paint over any surface contamination, the paint will eventually flake off. A three-step process must be used to prepare new and old concrete surfaces: (1) WASHING, (2) ACID ETCHING and (3) WASHING. **New Concrete** should be allowed to age for at least one month prior to painting This will allow most “alkali salts” to leach out of the concrete.

**Wear protective goggles, rubber boots and long rubber gloves before you start.**

### **Step 1- WASHING CONCRETE SURFACE**

Mix 8 ounces of powdered **TSP** (tri-sodium phosphate) with one gallon of water. The warmer the water the better TSP will dilute and clean. Mix about 5-gallons of this solution for each 1000 square feet to be scrubbed. **EQUIPMENT REQUIRED:** Long handle block brush with stiff bristles. Firmly scrub a 3’ x 3’ area and rinse before solution can dry. After all areas are completed, thoroughly rinse with clean water. Note: dried TSP residue can prevent the paint from sticking securely to floor..

### **Step 2- ACID ETCHING CONCRETE**

Acid etching opens surface pores and gives paint excellent bonding and penetration. Mix a solution of **Muriatic Acid** and water that equals a 10% solution. Pour the acid solution on the surface and brush it out with your long handle brush working it into the concrete. Etch a small area at a time and wait about 10 minutes, then hose off with clean water. Once the floor is properly etched it will feel like fine sandpaper. Do one final rinse; if you see areas where water is beading a second application of muriatic acid will be necessary.

### **Step 3- WASHING CONCRETE SURFACE**

Follow the same steps as your first washing. This step is very important since it is used to neutralize the muriatic acid and help insure surface contaminants no longer exist. Flush surface thoroughly with clean water.

## **PAINTING**

**TEMPERATURE** of surface and paint should be between 60-80 degrees F, with humidity less than 80%.

**APPLICATION EQUIPMENT-** Brush, Roller Cover (3/8 or 1/2 inch nap) or Airless Spray (.015 tip).

**REDUCE** Epoxy using D-100.

**APPLY** two coats. Always reduce the first coat approximately 10-15% with D-100 for good paint penetration into the surface. Wait until you can safely walk on first coat without leaving footmarks (approximately 24 hours) and then apply the second coat at full strength.

**CLEAN-UP** using D-100

**WAIT 3 DAYS** of relatively dry weather before allowing traffic on the floor.

**Note: Temperatures below 60 degrees, humidity above 70% and/or limited air movement will slow drying process.**