



3750 West Indian School Road  
Phoenix, Arizona 85019-3518  
(602) 636-6720  
(800) 644-9131  
(602) 636-6724 Fax

## TECHNICAL SHEET

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### XCEL SURFACES AQUA EPOXYCOAT (A Waterborne Epoxy)

Xcel Surfaces two component **Aqua EpoxyCoat** (a Waterborne Epoxy) is specifically designed for high performance uses, where hardness, chemical resistance, abrasion resistance and no hot tire pick-up are required. The waterborne two component **Aqua EpoxyCoat** (a Waterborne Epoxy) formulation results in excellent adhesion to cementous surfaces and outstanding hot tire pick-up resistance; this along with the low odor makes it the perfect product for interior application.

#### Key Benefits:

- Hardness
- Abrasion Resistance
- Solvent Resistance
- Chemical resistance
- Water resistance
- Impact Resistance
- Hot tire pick-up resistance
- Excellent Adhesion

#### Typical properties:

Type:	Bisphenol A type Epoxy
Odor :	Slight, less then house paint
Total Solids % wt.:	63%-66%
Total Solids % vol.:	57%-59%
PH:	8.3
Viscosity (Stormer):	100 K.U.
V.O.C.:	.74 lbs/gal. (89 gms/ltr)
Wt./gal.:	10 - 12
Specific gravity:	1.2 – 1.44
Flash Point(TCC):	200+ F.
Freeze/thaw stable:	DO NOT FREEZE
Pot Life:	1 to 3 hours depending on temp. And humidity.
Shelf-Life:	1 year from date of manufacture

#### Film Properties:

Xcel Surfaces **Aqua EpoxyCoat** will produce films with exceptional toughness, chemical and abrasion resistance. Our **Aqua EpoxyCoat** compares favorably with high performance conventional solvent-borne Epoxy. This product is designed for interior use only. If used for exterior, product will chalk and lose gloss with UV exposure. Chemical and protective resistance will not be effected.

#### **Dry Time**

**Set to touch** 4hrs to 12 hrs.

#### **Recoat**

4hrs min. to 24hrs. Max.

(Note: after 24 hrs cure, a light sanding is required to apply second coat.)

**Through dry** 72 hrs.

To place objects back on the surface (boxes/shelves etc.)

**Auto Parking** 7 days.

**Full cure** 21 days

(Note: all paint and coatings take 21 full days to cure)

### **Surface Preparation:**

Concrete must be cured 30 days before application. Caution—Epoxy will not adhere to a dirty / oily substrate. We recommend the following cleaning method. Dilute standard Muriatic (pool) acid one part acid to four parts water. (Note: always pour acid into water and wear proper safety equipment, goggles, gloves, and apron) apply over entire surface, let stand for 10 minutes rinse well with water. While floor still wet, broadcast baking soda over the entire floor (to neutralize). Add water and mop soda water over entire floor. Now rinse (power wash) floor well with water. Floor must be rinsed (power washed) free of all cleaning chemicals. When floor is still damp, start coating application.

**Note:** Take extra care cleaning areas where cars are parked on a regular basis. In these areas containments have been driven into the concrete by the tires and may cause adhesion problems.

### **Mixing Instructions:**

**Mixing ratio:** 4 parts A to 1 part B to 3 parts water.

Mix only amount of material that can be used in a 2 hour period. Mix part A (4 parts) to part B (1 part) by hand for 8 minutes or with LOW speed mixer for 4 minutes until product is well blended. LET MIXED PRODUCT STAND FOR 10 MINUTES (Induction Time). Next, while mixing at low speed, SLOWLY add 3 parts water. Add water at a rate that the water is accepted by the product before continuing. Now let final mixture STAND FOR 15 MINUTES (Induction Time) before application. Mix well one more time than apply. (Total Induction Time 25 minutes min.)

### **Chemical Resistance:**

Chemical resistance (1.0 mil film on cold rolled steel, air dry 7 days)  
ASTM D-1308 24 hour immersion testing

<b>Xylene</b>	slight softening/recovers
<b>10% Sulphuric Acid</b>	no effect
<b>10% Hydrochloric Acid</b>	no effect
<b>10% Acetic Acid</b>	no effect
<b>Motor oil</b>	no effect
<b>Break fluid</b>	no effect
<b>Transmission fluid</b>	no effect
<b>Gasoline</b>	no effect
<b>Trisodium Phosphate, 25%</b>	no effect
<b>Animal urine</b>	no effect

### **Adhesion:**

Adhesion on substrates are applied at 1.0 dry mils and dried for 7 days

<b>Concrete</b>	EXCELLENT
<b>Cementious surfaces</b>	EXCELLENT
<b>Cold rolled steel</b>	EXCELLENT
<b>Tin Plate</b>	EXCELLENT
<b>Untreated Aluminum</b>	EXCELLENT
<b>Polycarbonates</b>	EXCELLENT
<b>ABS</b>	Selective
<b>Nylon</b>	Selective
<b>Flexible Vinyl</b>	Selective

**Note:** adhesion to various plastics is dependent on the type of plastic and the treatment used on the plastic.

**Application:**

Xcel Surfaces **Aqua EpoxyCoat** can be brushed, roller or spray applied. This product requires two coat applications. If used over an existing coating, a test area must be applied to check adhesion BEFORE application. Proceed at your own risk. Note: caution must be used if coating beyond the garage door into the driveway. This area will chalk and loose gloss.

**Coverage:**

Average is approximately 250 sq. ft. per gallon depending on porosity of substrate.

**Colors:**

**Aqua EpoxyCoat** comes in 3 stock colors or can be custom tinted by the applicator by using **Aqua EpoxyCoat** tints available at your **Aqua EpoxyCoat** distributor.

**Xcel Surfaces – standard product warranty:**

The best of our knowledge, the information contained herein is accurate. The warranty described herein shall be in lieu of any other warranty, expressed or implied, including but not limited to, any implied warranty of merchantability or fitness for a particular purpose. There are no warranties that extend beyond the description of the face hereof. The buyer's sole and exclusive remedy against Seller shall be for the replacement of the products or refund of the purchase price in the event that a defective condition of the products should be found to exist. No other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available to the buyer. The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the products or refund of the purchase price of the products if any defect in materials or workman ship is found to exist. The exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase, within thirty (30) days of the discovery of the defect. Final determination of the suitability of the material for use contemplated, the manner of use, and whether the suggested use infringes any patents, is the sole responsibility of the Buyer.

**READ M.S.D.S. BEFORE USE**

Dispose of any unwanted material in accordance with FEDERAL, STATE and LOCAL regulations.

Xcel Surfaces products are intended for professional use only. Keep away from children. Xcel Surfaces warrants its products to be free of manufacturing defects and that they will meet the current published physical properties when applied in accordance with Xcel Surfaces directions and tested in accordance with ASTM and Xcel Surfaces standards. There are no other warranties by Xcel Surfaces of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Xcel Surfaces shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty, whether expressed or implied, including any warranty of merchantability or fitness for a particular purpose or from any cause whatsoever. Xcel Surfaces shall also not be responsible for use of this product in a manner to infringe on any patent held by others.