



## **ANCHOR BOND® ANCHOR CRETE® QTA URETHANE SYSTEM**

### **PRODUCT DESCRIPTION:**

Anchor Bond® Anchor Crete® QTA Urethane is a three component, urethane fortified cementitious coating which protects against harsh chemical attack as well as the stresses caused by thermal shock and high impact. An extremely strong floor, Anchor Bond® Anchor Crete® QTA Urethane can be used on both new and damaged surfaces.

### **RECOMMENDED FOR:**

- ▶ Interior or exterior applications
- ▶ High impact areas
- ▶ Areas where chemical attack is expected
- ▶ Areas stressed by thermal shock
- ▶ Areas with steam/hot water clean-up
- ▶ Food Processing Plants
- ▶ Coolers/Freezers
- ▶ Chemical Processing Plants
- ▶ Paper/Pulp Processing Plants
- ▶ Waste and Recycling Facilities

### **SOLIDS BY WEIGHT:**

100%

### **COLORS AVAILABLE:**

Gray, Red and Black

### **FINISH CHARACTERISTICS:**

Troweled / Dull

### **MIX RATIO:**

½ gallon Part A / ½ gallon Part B / 1 Part C (45#)

### **RECOMMENDED THICKNESS / YIELD:**

24 sq. ft./batch @ ¼" thickness

### **PACKAGING INFORMATION:**

5 batch kits  
10 batch kits

### **STORAGE CONDITIONS:**

Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be above 55° F to prevent product crystallization.

### **SHELF LIFE:**

One (1) year in original, unopened container

### **PHYSICAL PROPERTIES**

PROPERTIES	TEST METHOD	ANCHOR CRETE® QTA
COMPRESSIVE STRENGTH	ASTM C-579	7,900 psi 50.3 MPa
FLEXURAL STRENGTH	ASTM C-580	1,800 psi 12.4 MPa
TENSILE STRENGTH	ASTM C-307	800 psi 5.5 MPa
MODULUS OF ELASTICITY	ASTM C-469	1.7 x 10 <sup>5</sup> psi 1170 MPa
COEFFICIENT OF THERMAL EXPANSION	ASTM C-531	1.1 x 10 <sup>-5</sup> °F 2.0 x 10 <sup>-5</sup> °C
WATER ABSORPTION	ASTM C-413	<0.1%
THERMAL CONDUCTIVITY	ASTM C-177	8 Btu in./hr-ft <sup>2</sup> - °F 1.2 W/mK
DENSITY	ASTM C-905	130 lb/ft <sup>3</sup> 2.80 g/cm <sup>3</sup>
IMPACT RESISTANCE	ASTM D-2794	No visible damage or deterioration at min. 160 inch-pounds
COMPRESSIVE MODULUS	ASTM C-469	1.7 x 10 <sup>5</sup> psi 1,170 MPa
ABRASION RESISTANCE	ASTM D-4060 @ 1000 cycles	.07 Grams loss
ADHESION	ASTM D-4541	400 psi 2.8 MPa 100% Concrete failure
RESISTANCE TO FUNGI GROWTH	*ASTM G-21	1

\* Scale of 1 to 4, 1 Being least growth

### **PRIMER:**

Self Priming

### **TOPCOAT:**

Various

Contact your IPC Sales Representative for more information.

### **CURE SCHEDULE:**

Foot Traffic:

8 to 12 hours @70° F

Heavy Traffic:

13 to 16 hours @70° F

## **ANCHOR BOND® ANCHOR CRETE® QTA URETHANE SYSTEM MIXING AND APPLICATION INSTRUCTIONS**

### **1) PRODUCT STORAGE:**

Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60° and 90° F.

### **2) SURFACE PREPARATION:**

Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'x4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

### **3) PRODUCT MIXING:**

Measure ½ gallon of Anchor Crete® Resin Part A and ½ gallon of Anchor Crete® Hardener Part B. Pour pre-measured Part A and Part B liquids into a Mortar mixer and allow to mix for one minute. While Mortar mixer is turning, pour entire contents of 1 (45#) bag of Anchor Bond® 2500 Aggregate into the Mortar mixer. Allow to mix until all aggregate is fully wet in appearance.

### **4) PRODUCT APPLICATION:**

- A Screed Applicator is used to apply the mixed Anchor Bond® Anchor Crete® QTA Urethane to the floor. Material should be screed at a rate of 3/16" / 4 mm. to create a ¼" floor with Broadcast. If no Broadcast is required, screed and trowel at ¼".
- After Screeding the Anchor Bond® Anchor Crete® QTA Urethane, trowels are used to even the thickness of the material. Use enough pressure to smooth out the Mortar until a level thickness is achieved. If the mortar "pulls" creating a rough or open surface, either the trowel has become sticky or it is being held at the wrong angle. Keep the trowel clean by frequently cleaning it with scouring pads and warm, soapy water, remembering to wipe it dry before use again.
- Once the Mortar has been hand trowled to a uniform thickness, roll trowled surface with a loop roller to smooth any trowel marks.
- The Anchor Bond® Anchor Crete® QTA Urethane surface should be level and smooth to prevent an inconsistent finish before broadcasting the texture into the Mortar.
- Broadcast the textured aggregate directly into the wet Mortar with a sprycaster. Broadcast must begin less than 15 minutes after applying Mortar. It is important to broadcast the Aggregate until a uniform, dry surface exists.
- After the Mortar has cured, remove any excess Aggregate using a medium bristle nylon push broom or an industrial vacuum. The floor should be uniform texture. The surface will be rough to the touch, like that of coarse sandpaper.

### **5) RECOAT OR TOPCOATING:**

The information on the front side is a reliable guideline to follow. However, it is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the topcoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence. Many epoxy overlays and coatings as well as urethanes are compatible for use as a topcoat for this product.

### **6) CLEANUP:**

Use xylol

### **7) FLOOR CLEANING:**

Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

### **8) RESTRICTIONS:**

Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.

### **NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY**

We warrant that our product is manufactured to the specifications as stated here or in other publications. All other information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Uncured epoxy resins, polymers and their curing agents may be ALKALINE, TOXIC OR BOTH, DEPENDING ON THE PARTICULAR SYSTEM. THEY MAY CAUSE ALLERGIC REACTIONS OR HYPERSENSITIVITY REACTIONS. BEFORE USING ANY MATERIAL, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.