



## Guidelines for Applying Anti-Graffiti Coatings

Coatings For Industry, Inc. • 319 Township Line Road, Souderton, PA 18964 / 215-723-0919

### General Objective

The objective of this guide is to describe the material and workmanship necessary to provide a surface which will allow graffiti to be easily removed without the time consuming use of harsh chemicals or sandblasting. These coatings will also provide an aesthetically pleasing appearance without detracting from the present color scheme of the building or wall. These coatings are supplied in clear or in colors where it is desirable to add color as a decorative element. Note that separate procedures shall be followed for the application of a clear system as opposed to a pigmented system. The painting shall be done in accordance with the manufacturer's instructions and shall be performed to meet the specifications of the project engineer.

### Scope

This guide covers the paint and application requirements for applying a single component aluminum pigmented moisture curing urethane primer and two component aliphatic urethane finish coat system.

### Coating Systems

#### A. Clear

The paint system shall consist of three coats of clear two component aliphatic urethane, URETHABOND 111, as manufactured by COATINGS FOR INDUSTRY, INC., 319 Township Line Road, Souderton, PA 18964. The finish coat may be supplied either as a full gloss or semi-gloss clear as selected by the project engineer.

#### B. Pigmented System

The paint system shall consist of a single prime coat and two coats of finish. The finish coats shall be pigmented to a color as selected by the project engineer in full gloss or semi-gloss.

**Primer:** The primer shall be a single component, aluminum pigmented, moisture curing urethane, URETHABOND 104.

**Intermediate and Finish Coats:** The intermediate and finish coats shall be a two component aliphatic urethane, URETHABOND 111, supplied in the color and gloss as specified by the project engineer.

### Preparation of Surface

**Concrete:** Concrete surfaces shall be thoroughly cleaned of all residual dirt, grease, contaminants and graffiti. In the case of new concrete, all form oils and release agents must be removed. This may be done by high pressure hot water wash (3000 psi minimum nozzle pressure) along with suitable cleaning chemicals, followed by thorough rinsing to flush residual cleaners from the surface.

Whip or brush blasting or mechanical scarifying are suitable alternate methods of preparation but care must be taken to assure that a uniform profile with a texture no greater than medium grit sandpaper is obtained.

Exposed aggregate panels shall be prepared by fluid pressure techniques outlined above. Either clear or pigmented systems can be applied to concrete.

**Note:** If a clear system is applied to a natural concrete surface, i.e. concrete without color added, the clear coat will bring out the various color variations found in natural concrete. This will give a mottled appearance. We therefore recommend a pigmented system on natural concrete surfaces.

**Steel:** Steel surfaces must be free of scaling rust, loosely adhering coating, residual dirt, grease, contaminants, and graffiti. This may be accomplished by sandblasting, hydroblasting, solvent cleaning, detergent cleaning, or a combination of these methods. Refer to CFI Bulletins, 111, 104, or G-1 for additional information. In all cases, the pigmented system outlined above would be used on steel substrates.

After preparation, the surface must be allowed to thoroughly dry. New concrete, unless accelerated must be cured for 28 days. These coatings must not be applied to wet or damp surfaces nor within six hours of impending rain. Further, they must not be applied when the ambient temperature is within 10° of the dew point although they will cure at temperatures as low as 25°F.

## **Paint Application**

### *A. Clear*

Areas which have been thoroughly prepared as above must be free of all moisture from rain dew or condensate.

Add URETHABOND 111 Part B to Part A and thoroughly blend using a mechanical stirrer. The two components must be thoroughly mixed. Paint is ready for application immediately after blending the two components and is supplied at a consistency for application.

Three (3) coats of URETHABOND 111 are to be applied at a minimum dry film thickness of 2 mils per coat with a minimum dry time of five (5) hours between coats. At no time should the coating be applied where the temperature is below 25°F or the

humidity above 88% or when rain or precipitation is expected within six (6) hours of application. Painting shall not be allowed when the temperature is within 10°F of the dewpoint. Refer also to Product Information Sheet, CFI Bulletin 111 and CFI Bulletin G-2.

If the alternate clear semi-gloss finish coat, URETHABOND 111 semi-gloss, is specified, care should be taken so that the finish coat containers, so marked, are held separately until completion of the application of base and intermediate coats.

### *B. Pigmented System.*

#### **Primer**

One prime coat of URETHABOND 104 shall be applied to the entire surface to be painted, including masonry, concrete, and metal. Application of URETHABOND 104 will be in accordance with manufacturer's instructions at a minimum of 2 mils dry film thickness and will be allowed to dry a minimum of three (3) hours prior to topcoating. It is important all moisture be kept from the surface for this three (3) hour period. URETHABOND 104 is **not to be thinned**. Product is to be applied as received, thinning is not required for application and is detrimental to product performance. URETHABOND 104 must be topcoated within 24 hours.

URETHABOND 104 is not to be applied when temperature is below 25°F. or when relative humidity is above 88%.

Painting shall not be permitted when temperature is within 10°F. of dew point. Refer also to Product Information Sheet, CFI Bulletin 104, and CFI Bulletin G-2.

#### **Pigmented Finish Coat**

Primer surface **must be free of all moisture from rain, dew, or condensate.**

Add URETHABOND 111 Part B to Part A and thoroughly blend using a mechanical stirrer. The two components must be thoroughly mixed. Paint is ready for application immediately after blending the

two components and is supplied at a consistency for application by brush or roller. If thinning is required for spray application, paint shall be thinned only with products recommended for that purpose by the manufacturer.

Two (2) finish coats of URETHABOND 111 are to be applied at a minimum dry film thickness of 2 mils each coat with a minimum dry time of five (5) hours between coats. At no time should the paint be applied when the temperature is below 45°F. or humidity above 88% or when rain or precipitation is expected within six (6) hours of paint application.

Refer also to CFI Bulletins 111 and G-2.

### **Areas to be Coated**

The areas to be coated will be defined by the project engineer. All other areas and property must be properly protected or masked to assure that they remain free of coating, overspray, etc.

Application can be done by brush, roller, or spray. Method of application shall be approved by the project engineer.

### **Method of Application**

Application can be done by brush, roller, or spray. Method of application shall be approved by the project engineer.

### **Graffiti Removal**

URETHABOND 111 is extremely chemical, solvent, and abrasion resistant once fully cured. It will tolerate repeated graffiti removal using commercial graffiti removers, lacquer thinners, janitorial cleaners, detergents, etc. In addition, this coating is resistant to high pressure water jetting and steam cleaning. Most chemicals used in graffiti removal will not harm this coating.

### **Precautions**

Refer to safety and precautions outlined on product data sheets and material safety data sheets.

**LIMITED WARRANTY:** All statements, technical information and recommendations contained herein are based on tests the manufacturer believes to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, express or implied:

Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective at the time the sealed container is first opened, and in no event beyond the shelf date printed on the label. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith.

All data, statements and recommendations made herein are based upon information manufacturer believes to be reliable, but are made without any representation or guarantee or warranty of accuracy and are made with reservation of all patent rights. All products are sold on the condition that the user will evaluate them, as well as manufacturer's recommendation, to determine their suitability for user's own purpose before adoption. Statements regarding the use of the products or processes are not to be construed as recommendations for their use in violation of any patent rights or in violation of any applicable laws or regulations.

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