

### Product Description Sheet

#### 1. PRODUCT DESCRIPTION

##### A. COMPOSITION

Aero-Flor 100 VOC is manufactured using the latest technology of polyurethane resin systems. It is an aliphatic polyester urethane formula, which is ultraviolet light stable, and provides high chemical, abrasion and stain resistance. It has an extremely low VOC content of less than 100 grams per liter. Aero-Flor 100 VOC is available in a clear gloss formulation. It is compliant with EPA Industrial Maintenance Coating Guidelines and all air quality management districts standards and regulations including the South Coast Air Quality Management District (SCAQMD) Rule 1113.

Aero-Flor 100 VOC Clear Gloss aliphatic polyester urethane coating is a high performance durable, chemical resistant flooring topcoat and finish coat or thin film coating system. It has excellent cleanability and provides superior long-term gloss, appearance and long term performance.

Aero-Flor 100 VOC conforms to all requirements of:

- U.S. General Services Administration Specification A-A-50542 (Coating System: Reflective, Slip Resistant, Chemical-Resistant Urethane for Maintenance Facility Floors)
- Conforms to most air quality management district regulations
  - EPA (Environmental Protection Agency)
  - CARB (California Air Quality Resources Board)
  - OTC (Osmotic Transfer Committee)
  - LADCO (Lake Michigan Air Directors Consortium)
  - SCAQMD (South Coast Air Quality Management District)

When used as an independent system, Aero-Flor 100 VOC can be applied over concrete surfaces using Dex-O-Tex VaporControl Primer 200, a moisture mitigation epoxy primer to withstand MVER (moisture vapor emissions rates) of 10lbs/1000SF/24hrs. per ASTM F1869 or an internal concrete rh of 84% per ASTM F2170. Please consult Crossfield Products Corp. for recommendations when applied to concrete surfaces exceeding these values other substrates or when being used as an optional top coat.

When additional skid resistance required, custom textures, ranging from slight to aggressive can be created by incorporating various pre-engineered aggregate blends of aluminum oxide, specialty or synthetic aggregates.

Aero-Flor 100 VOC can be used in both interior and exterior exposures. Aero-Flor 100 VOC has excellent resistance to ultraviolet light including resistance to yellowing, color change or physical degradation. When applying over surfaces with continuous moisture vapor emissions, use appropriate Dex-O-Tex vapor control products.

##### B. TYPICAL USES

Aero-Flor 100 VOC Clear Gloss urethane coating is a high performance aliphatic polyester urethanes that are designed for use in any demanding environment that require excellent chemical resistance and superior abrasion resistance, such as automobile service bays, aircraft hangars, manufacturing areas, or as a finish coat over most other Dex-O-Tex flooring systems in commercial, industrial and institutional facilities, etc.

##### C. ADVANTAGES AND LIMITATIONS

###### ADVANTAGES:

1. Excellent gloss retention
2. Excellent cleanability and abrasion resistance

3. Resists wide range of in-service chemicals.
4. Complies with all current (see revision date)VOC regulations
5. ADA Compliant, validate to ADA Advisory Compliance using a Variable Incident Tribometer.
6. Slip-Resistant – Available in a choice of slip-resistant surface textures and dimensional profiles.
7. LEED (Leadership in Energy and Environmental Design) Credit Points are available under 2 different Classifications.
8. Does not contain chemicals objectionable to Green Seal Standard GS-11 or deemed unacceptable by LEED-CS.
9. Installed only by Certified Factory-Trained Dex-O-Tex Professional Contractors.
10. Ten year warranty against moisture vapor emission damage available for Dex-O-Tex Systems applied over VaporControl™ Primer 100 (optional, at an additional cost). Contact Crossfield Products Corp. for further information.

###### LIMITATIONS:

1. Substrate must be above 50°F (10°C), dry and prepared in accordance with SSPC SP 13/NACE No. 6.
2. Moving cracks in concrete may reflect through finish. A waterproofing and crack isolation membrane can be installed prior to system application.
3. Moderately high solvent odor during application.
4. Floor coatings and coverings, including those manufactured by Crossfield Products Corp., may show staining of tire marks from some brands and types of tires particularly if exposed immediately after application. Crossfield Products Corp. does not warrant its materials against tire staining.
5. Moisture vapor emission rates (MVER) in excess of 10 lbs/1000sq/ft/per 24hr. period per ASTM F1869, or an rh in excess of 84% per ASTM F2170 may result in delamination, discoloration or improper curing without proper treatment prior to installation of the flooring system. Consult with Crossfield Products Corp. for specific recommendations.
6. Vapor control primers, sloping, smoothing or leveling compounds, crack repair or isolation, waterproof membranes or other supplementary items may be required for proper installation at an additional cost. Consult with Crossfield products Corp. for specific recommendations.

#### 2. PHYSICAL PROPERTIES

- A. Cured System Thickness** Primer and Two Coats (WFT Primer 7 mils and two Urethane 4 mils each) 15 mils
- B. Pencil Hardness** ASTM D1211\* ..... 3H
- C. Impact Resistance** ASTM D2794, Direct ..... 160 in/lbs  
Reverse..... 160 in/lbs
- D. Thermal Shock** ASTM D1211\*..... Good
- E. Flexibility** ASTM D1737\*\* .....Passes (180° Bend, 1/8" Mandrel)
- F. Coefficient of Friction** ASTM F 1679..... 0.62
- G. Chemical Resistance** ASTM D1308  
(See Chemical Resistance Chart for Detailed Information)

Gasoline	No Effect	Isopropyl Alcohol	No Effect
Kerosene	No Effect	Hydrogen Peroxide 50%	Slight Stain
Skydrol	No Effect	Hydrolic Acid 25%	No Effect
- H. Gloss, 60 degrees** ASTM D 523, Clear ..... 95+
- I. Tensile Strength** ASTM D882.....8,600 psi
- J. Elongation** ASTM D882.....10%
- K. Abrasion Resistance** ASTM D4060 .....30 mg/loss  
1000 cycles, CS-17 Wheel

L. **Microbial Resistance** ASTM G21 ..... Passes Rating 1

### 3. OVERVIEW OF INSTALLATION STEPS

#### Independent System

- A. Prepare surface in compliance with SSPC SP 13/NACE No.6.
- B. Apply VaporControl™ Primer 200 or VaporControl™ Primer 100 epoxy primer.
- C. Apply two coats of Aero-Flor 100 VOC.

#### As Optional Topcoat over other Dex-O-Tex Systems

- A. Apply Aero-Flor 100 VOC. over Dex-O-Tex system within critical cure times as per manufactured recommendations.

### 4. PRODUCT AVAILABILITY

Crossfield Products Corp. maintains offices and factories at addresses listed below. Factory Trained Contractors are established in all major trading areas in the United States, Canada and various European, Latin American and Far East nations.

### 5. SKID RESISTANCE and CLEANABILITY

In general the more aggressive the finished surface the greater the coefficient of friction and corresponding skid resistance, the more difficult to clean. The smoother the finished texture the easier the surface is to clean, but there is a loss of skid resistant properties.

### 6. CLEANING

Cleaning and disinfecting compounds and cleaning techniques can affect the color, gloss, texture and performance of the system. As a precautionary step, Crossfield recommends that the end-user test their cleaning and disinfecting compounds on a sample or on a small, out of the way finished area, utilizing the intended cleaning technique prior to cleaning the entire surface area. If no deleterious effects are observed, the procedure can be continued. If the cleaning and disinfecting compounds or cleaning techniques damage the system, modification of the cleaning material or techniques will be required. Contact your Representative for additional information.

### 7. SPECIFICATION ASSISTANCE

Consult Crossfield Products Corp. for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

### 8. CHEMICAL RESISTANCE

See Crossfield Products Corp's, Chemical Resistance Guidelines for chemical resistance of a product or system, as well as the types of test performed:

- ASTM D1308 Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes
- Crossfield Products Corp. Proprietary Testing

**Note:** Chemical resistance is a functional test, usually limited to changes in weight or thickness measured in loss or gain and does not evaluate subject aesthetic issues. To determine aesthetic issues, Crossfield recommends testing the products or system in accordance with intended end use.

### 9. TESTING

The technical data contained herein is the result of tests made in Crossfield's laboratories or in independent laboratories using small scale equipment, following generally accepted trade practices. Although this information is believed to be true and accurate, the use of different equipment for testing under dissimilar conditions or the testing of samples produced under dissimilar conditions may develop substantially different results.

### LIMITED WARRANTY

**NO WARRANTY SHALL BE EFFECTIVE UNTIL THE TERMS AND CONDITIONS OF SALE SET FORTH IN CROSSFIELD PRODUCTS CORP. INVOICES ARE MET.**

Crossfield Products Corp. warrants to the purchaser of its products that such products are free from manufacturing defect. Crossfield does not warrant or guarantee the workmanship performed by any person or firm installing its products. Crossfield's obligation under this warranty is limited solely to the original purchaser and solely to the remedy of replacement in kind of any product which Crossfield sold which may prove defective in manufacture within one year from date of installation, provided said product was stored correctly and installed within the product's shelf life, by the original purchaser and which Crossfield's examination shall disclose to Crossfield's satisfaction to be thus defective.

**IN NO EVENT SHALL CROSSFIELD PRODUCTS CORP. BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS WARRANTY IS EXPRESSLY GIVEN IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE AND ALL OTHER OBLIGATIONS OR LIABILITIES ON CROSSFIELD'S PART, AND WE NEITHER ASSUME NOR AUTHORIZE ANY PERSON OR PERSONS TO ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH SALE OF A CROSSFIELD PRODUCT. THIS WARRANTY SHALL NOT APPLY TO ANY OF CROSSFIELD'S PRODUCTS, WHICH HAVE BEEN SUBJECT TO ADULTERATION, ALTERATION ABUSE OR MISUSE. CROSSFIELD PRODUCTS CORP. MAKES NO WARRANTY WHATSOEVER IN RESPECT TO ACCESSORIES, PARTS OR MATERIAL NOT SUPPLIED BY CROSSFIELD PRODUCTS CORP., WHICH ARE USED IN CONNECTION WITH ITS PRODUCTS. THE TERM "ORIGINAL PURCHASER" IN THIS WARRANTY MEANS THAT PERSON, CORPORATION OR ENTITY TO WHOM CROSSFIELD PRODUCTS CORP. SOLD ITS PRODUCTS. ANY ACTION TO ENFORCE ANY WARRANTY OR FOR BREACH OF CONTRACT OR ARISING OUT OF ANY CLAIM AGAINST CROSSFIELD PRODUCTS CORP. SHALL BE COMMENCED AND MAINTAINED ONLY IN A COURT OF COMPETENT JURISDICTION IN THE CONTINENTAL UNITED STATES OF AMERICA. THE PURCHASER ACCEPTS THESE TERMS AND CONDITIONS, AND HEREBY EXPRESSLY WAIVES ANY CLAIM TO ADDITIONAL DAMAGES.**

**CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN**



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