

# **Environmental Protective Coatings, Inc.**

2035 Regency Road, Suite5, Lexington, Kentucky,40503  
Phone: (859) 277-0014 Fax: (859) 278-4973 Email: envirocoat@aol.com

## **Product Information:**

### **E-8000 DIAMOND CRYSTAL**

**AN ACRYLIC POLYURETHANE ULTRA HARD CLEAR COAT TWO COMPONENT**

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#### **USES:**

ENVIROSHIELD 8000 CLEARCOAT IS A HIGH SOLIDS TWO COMPONENT CLEAR POLYURETHANE FLOOR AND ANTI-GRAFFITI WALL COVERING.

THIS TECHNOLOGY IS SUITABLE FOR USE AS A HIGH SOLIDS (3.20VOC) Architectural AND MAINTENANCE CLEAR COATING. IT CAN BE USED ON SURFACES, WHICH REQUIRE RESISTANCE TO GRAFFITI-REMOVING COMPOUNDS, AS A FLOOR COATING OR ON ANY SURFACE WHERE A CLEAR COAT IS DESIRED.

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#### **FLOOR SYSTEMS:**

ENVIROSHIELD 8000 AS EXPERIENCED BY USERS, IS ONE PART OF A THREE PART SYSTEM FOR CONCRETE AND STEEL SUBSTRATES, WHEREBY ENVIROSHIELD 2000 IS USED AS A PRIMER-SEALER, ENVIROSHIELD 600 IS USED AS A DURABLE COLOR MID- COAT, AND ENVIROSHIELD 8000 IS USED AS A HARD SURFACE COATING TO WITHSTAND HARSH TREATMENT AND ENVIRONMENTS.

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#### **TECHNICAL DATA:**

WEIGHT SOLIDS: % 63.43

WEIGHT PER GAL: 8.76 LBS.

VOLUME SOLIDS: % 58.63

VOC LBS. PER GAL.: 3.20

GRAMS PERIL: 384

VOLUMETRIC MIX: 2.36 PART A BASE TO 1.0 PART 13 CONVERTER

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### FILM PROPERTIES:

TABER ABRASION ASTM D-4060-84 = 34.2 MG. LOSS  
(CS-17 WHEEL, 1000GM. LOAD, 1000 CYCLES)  
IMPACT, ASTM D-2194-84 DIRECT 160 IN. LBS. REVERSE 160 IN. LBS.  
VISCOSITY COMPONENT ONE AND TWO 310 CPS  
PENDULUM HARDNESS ASTM D-4366-87A MEK RESISTANCE - NO EFFECT  
AFTER 100 DOUBLE RUBS

RECOMMENDED D.F.T. @ 1 MIL

COATING CAN BUBBLE IF RECOMMENDED D.F.T. IS EXCEEDED

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### CURING TIME:

TO TOUCH: 3 HRS.

TO HANDLE: 4 HRS.

TO RECOAT @ 25 DEGREES C. @ 50% HUMIDITY: 7 HRS.

TO HARD DRY: 14 HRS.

TO HARD DRY MAR-FREE: 25 HRS.

### CHEMICAL AND SOLVENT RESISTANCE:

(FOUR HOUR SPOT TEST, COVERED)

SKYROL B-4 = NO EFFECT

HYDRAULIC FLUID #83282 = NO EFFECT

25% NITRIC ACID = BLISTERED

37% HYDROCHLORIC ACID =NO EFFECT

50% SULFURIC ACID = NO EFFECT

50% SODIUM HYDROXIDE = NO EFFECT

10% ACETIC ACID =NO EFFECT

30% NII3OH = NO EFFECT

MEK = SLIGHT SWELLING

XYLENE = NO EFFECT

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## NOTES:

APPLICATION TO ABSORBENT SUBSTRATES SUCH AS CONCRETE AND ASBESTOS REQUIRES A PRIMER TO PREVENT SAGGING OF THE BINDER. ENVIROSHIELD 2000 IS RECOMMENDED FOR PRIMER BEFORE APPLYING ENVIROSHIELD 8000 ENVIROSHIELD 600 MAY BE TOP COATED WITH ENVIROSHIELD 8000 IF COLOR IS DESIRED, ESPECIALLY FOR STEEL STRUCTURES AND CONCRETE FLOORS.

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## POT LIFE:

1/2 HOUR @ 100 DEGREES F. AND 90% R. HUMIDITY, USABLE.

1 HOUR @ 78 DEGREES F. AND 50% R. HUMIDITY, USABLE.

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## COVERAGE RATES: [THEORETICAL ]

1.0 MIL D.F.T. = 930 SQ. FT. PER GAL.

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2.0 MIL D.F.T. = 465 SQ. FT. PER GAL.

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## SURFACE PREPARATION:

SURFACE MUST BE FREE OF ALL MOISTURE, DIRT, OIL, GREASE AND OTHER CONTAMINANTS.

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## SAG RESISTANCE:

0.5 TO 1.0 WET MILS = NO SAG

1.5 WET MILS =5% SAG

2.5. WET MILS =10% SAG

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## APPLICATION:

STIR THOROUGHLY, MAKING SURE PRODUCT IS ONE CONSISTENCY, KEEP CONTAINER CLOSED WHEN NOT IN USE, AS PRODUCT REACTS WITH ATMOSPHERIC MOISTURE.

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## **EQUIPMENT:**

APPLY WITH ROLLER, SPRAY OR BRUSH.

SPRAY TIP SIZE: 0.009 to 0.0 13

HOSE SIZE: 1/4 TO 3/8 INCH.

## **CAUTION:**

SURFACE TEMPERATURE MUST BE [5] DEGREES ABOVE THE DEWPOINT BEFORE APPLYING. SURFACE TEMPERATURE SHOULD BE AT LEAST 40 DEGREES F. AND NOT EXCEED 125 DEGREES F. BEFORE APPLICATION

**CLEANUP:** USE XYLENE TO FLUSH AND CLEAN EQUIPMENT IMMEDIATELY AFTER USE.

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