



## **PRODUCT DATA SHEET**

### **KOSKOTE APE-SERIES (ARCHITECTURAL GRADE)**

**( POLYESTER-TGIC BASED POWDER COATING )**

#### **DESCRIPTION**

KOSKOTE APE-Series is a super durable types polyester powder coating gives decorative finishes provides excellent outdoor durability and resistance to yellowing on prolonged exposure to heat. This product specially designed to meet most stringent requirements for colour stability, gloss retention and corrosion protection therefore it is suitable for application to architectural work.

#### **PHYSICAL PROPERTIES**

Appearance	: Free flowing fine powder
Colour	: Wide colour range.
Specific gravity	: 1.20 ~1.75 gm/cm <sup>3</sup> depend on colour.
Volume Solid	: 100%

#### **APPLICATION INSTRUCTION**

Suitable for application by proprietary manual or automatic corona charging guns. Make sure the spray equipment it hoses, gun parts and hoppers are clean and free from defuse powder all the contact points should be maintained to ensure metal-to-metal ground. Voltage should be kept between 20~100kV. Spray booth and collection system should maintain to ensure sufficient air velocities.

#### **CURING SCHEDULE**

Standard baking temperature : 10 minutes at 200°C ( Peak metal temperature ).

#### **COATING THICKNESS**

Recommended Thickness : 60 - 80 µm

#### **STORAGE & SHELF LIFE**

Store below 25°C in dry conditions. When stored under such conditions the shelf life is not exceeding 3 months from the date of manufacture.

### **PHYSICAL COATING PERFORMANCE**

Gloss	: 25 - 95° ( ASTM D523 60° )
Direct impact	: Greater than 120lb.in ( ASTM D2794 )
Reverse impact	: Greater than 120lb.in ( ASTM D2794 )
Adhesion	: Gt = 0 ( DIN 53151 ) 2mm.
Conical mendrel bend	: Less than 3mm ( ASTM D522 )
Pencil Hardness	: H – 2H ( ASTM D3363 )

### **PRE-TREATMENT**

To achieved maximum coating performance type and quality of pre-treatment is essential. Typical pretreatment processes for the most frequently used substrates are :

Aluminium : Chromate conversion treatment

### **ACCELERATED WEATHERING RESISTANCE**

QUV A 340 nm (DIN EN ISO 11507) : 1000 hours - Pass  
Gloss Retention : >50%  
Delta E : < 8

### **SALT SPRAY RESISTANCE**

According to ASTM B117

No blistering and maximum 1.6 mm corrosion creep from scratch after 1000 hours

### **HUMIDITY RESISTANCE**

According to DIN 50017: No breakdown after 1000 hours

### **SOLVENTS & CHEMICALS RESISTANCE**

Good resistance to common acids, alkalis and solvents at room temperature. May be attacked by nitric acid, ketones and trichloroethylene. Refer to the information sheet " Chemical Resistance of Powder ".

\*\*\* All the film properties were determined using 60 - 80µm powder film over 0.5mm degreased Chromated Al test panels.

**HEALTHY & SAFETY**

Avoid skin and eyes contact by wearing suitable overalls, gloves, goggles, etc. Spillage on the skin should immediately be removed by thorough washing with water and soap. Eyes should be well flushed with water and medical attention sought immediately.

**DISCLAIMER**

The information in this data sheet is provided to the best of our knowledge. However, we have no control over either quality or condition of the substrate and other factor affecting the use and application of this product. Therefore, we cannot accept any liability whatsoever or howsoever arising from the performance of the product or for any loss or damage arising from the use of this product. We reserve the right to change the product data without notice.

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