



## PRODUCT DATA SHEET

## KOSKOTE APE-SERIES

# KOSKOTE APE-SERIES (ARCHITECTURAL GRADE) (Polyester-TGIC Based Powder Coating)

### DESCRIPTION

KOSKOTE APE-Series is an outdoor 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 ~1.70 gm/cm <sup>3</sup> depend on colour.
Volume Solid	: 100%

### APPLICATION INSTRUCTION

It is suitable for application by proprietary manual or automatic corona charging guns. Make sure the spray equipment 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

Polyester System : 10 minutes at 200°C (Metal temperature).



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### COATING THICKNESS

Recommended Thickness : 60 - 80  $\mu\text{m}$

### STORAGE & SHELF LIFE

Store below 25°C in dry conditions. When stored under such conditions the shelf life is not exceeding 6 months from the date of manufacture.

### PHYSICAL COATING PERFORMANCE

Gloss ( ASTM D523 60° ) : 25 - 95 %  
Direct impact (ASTM D2794) : No film removal, 1/10" distortion  
Adhesion (DIN 53151, 2mm) : Gt = 0  
Conical mandrel bend (ASTM D522) : Less than 5 mm  
Pencil Hardness (ASTM D3363) : H minimum

### 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



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### SALT SPRAY RESISTANCE

According to ASTM B117

No blistering and maximum 1.6 mm corrosion creep from scratch after 1500 hours

### HUMIDITY RESISTANCE

According to ASTM D-2247 : "Few" no. 8 blisters maximum after 1000 hours

### SOLVENTS & CHEMICALS RESISTANCE

Good resistance to common acids, alkalis and solvents at room temperature. It 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

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