

iBA KİMYA SAN. ve TİC. A.Ş.

1. Organize Sanayi Bölgesi
Oğuz Caddesi No:22
06930 Sincan / Ankara / Türkiye
Tel:+90312 267 09 83 Fax:+90312 267 09 87
www.iba.com.tr

# **PS60**

# **Technical Data Sheet**

## Description

**PS60** is a thermosetting TGIC free superdurable powder coatings. It is based on advanced polyester resin technology and high performance pigments designed specifically for architectural applications where colour and gloss retention are critical. It has very good gloss and colour retention compared with standard polyester powder coatings.

#### **Characteristics**

One coat finishes
Excellent UV resistance
Superdurable powder
Suitable for most exterior environments
15 years guaranteed performance on correctly pre-treated aluminium
Tgic free
Good flow out

# **Applications**

Specially developed for use on extruded architectural aluminium, including window and door frames, and extruded panel work on commercial buildings

## **Product Properties**

**UV Resistance** Very good UV resistance.

Flow out Very good Surface Gloss GL

**Specific gravity** 1.2-1.7 gr/cm3 (low with dark colours, high with light colours)

Shelf Life 24 months (< 30°C and < 50% RH)

### **Application Data**

**Application** Corona/Tribo (Can be applied by tribo guns if product code has "T" for the 6th character)

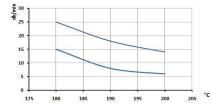
**Curing** 190°C 10 minutes recommended

 Metal Temperature (°C)
 Time (minutes)

 180
 15-25

 190
 8-18

 200
 6-14



Film Thickness 60-80 μm (recommended)

**Theoretical cons.** 9-12 m<sup>2</sup>/kg. Practical spreading rates will vary due to such factors as method and conditions of

application, specific gravity, surface profile and texture.



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# **Coating Properties**

Tests	Colours Tested		
	RAL 3005	RAL 5010	RAL 9010
Adhesion (ISO 2409)	0	0	0
Buchholdz (ISO 2815)	>80	>80	>80
Cupping test (ISO 1520)	No cracking at a diameter of 5 mm	No cracking at a diameter of 5 mm	No cracking at a diameter of 5 mm
Bend test (ISO 1519)	No cracking at a diameter of 5 mm	No cracking at a diameter of 5 mm	No cracking at a diameter of 5 mm
Impact test (ISO 6272-2/ASTM D 2794)	No cracking at 2,5 Nm	No cracking at 2,5 Nm	No cracking at 2,5 Nm
Kesternich (ISO 3231)	No penetration or detachment beyond 1 mm	No penetration or detachment beyond 1 mm	No penetration or detachment beyond 1 mm
Acetic acid salt spray resistance (ISO 9227) / 1000 hrs	Conforming to QUALICOAT specification	Conforming to QUALICOAT specification	Conforming to QUALICOAT specification
Accelerated weathering test (ISO 16474-2)	Residual Value (not less than 25%)	Residual Value (not less than 25%)	Residual Value (not less than 25%)
Resistance to mortar (EN 12206-1)	No defects no detachment	No defects no detachment	No defects no detachment
Resistance to boiling water	No defects no detachment	No defects no detachment	No defects no detachment
Humidity Test (ISO 6270-2)	No defects no detachment	No defects no detachment	No defects no detachment

### **Application Guide**

#### **Surface Preparation**

All surfaces should be degreased and pretreated for optimal performance.

Suitable pretreatment includes:

Aluminium Yellow chromate or green chromate/phosphate

#### **Application Procedure and Equipment**

**PS60** series powder coatings charging properties are optimized when powder is free-flowing and moisture-free. Aged or compacted powder may require preconditioning for several minutes to fluidise evenly.

If storage room temperature is lower than the application area, powder coatings, which are hygroscopic, should be acclimated in unopened containers prior to adding into the spray hopper. For optimum performance, It should be applied and stored at air-conditioning area. Storage temperatures should be kept below 30°C.

Powder should not be stored in hoppers for long periods of time. If moisture condensation occurs, fluidize powder to dry-out or replace moisture-laden powder with virgin powder.

Powder coatings are finely ground particulates. Respirators or dust masks should be used by workers exposed to powder in order to avoid dust inhalation.

Compressed air to the gun must be oil and moisture free.

Silicone should not be used in application area.

For box feeders, ensure probe is fully inserted in powder and operated as per manufacturer's recommendations.

Contact points should be maintained to ensure metal-to-metal ground.

Apply by electrostatic spray. Relative humidity should be 50-60% for corona system, lower than 40% for tribo system. Cure as per recommendations outlined above.

Reclaim-to-virgin ratios should be carefully monitored to maintain spray consistency.

Sieving powder before adding to hopper eliminates potential clumping or foreign matter.

Test for cure of the coating by impact test.



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#### **Care and Maintenance**

**PS60** should be regularly washed with warm water and mild liquid detergent, followed by a fresh water rinse to maintain the attractive appearance of the powder cured film.

The use of abrasive cleaners is not recommended, nor is the use of active organic solvents.

# **Health and Safety**

The SDS is an integral part of using this product as it contains information on the potential health effect of exposure, personal protective equipment needed. It is recommended to contact to Sales and Customer Service Offices for further information.

#### **Precautions and Limitations**

As a result of possible wide application variations and stoving conditions, **PS60** may show variation, between İBA Kimya Powder Coatings prepared samples and production applied material. Therefore, it is the applicator and/or their customer's responsibility to ensure the product conforms to their requirements.

For optimum performance ensures recommended dry film thickness is obtained.

Due to water release during curing process, pin hole problem can be seen above 100  $\mu m$ .

### **Transport and Storage**

**Packaging** 15-20-25 kgs. Heavy polyethylene bag in a corrugated carton **Shipment** Not dangerous goods. No special transport requirements.

**Storage Conditions** Storage temperatures should be kept below 30 C° and 50% relative humidity. Powder

should be stored in closed containers.

DISCLAIMER: All the information provided in this data sheet depends on our knowledge and experience up to date and may be subject to revision as new technology and experience evolve. Since the conditions of application may vary depending on the substrate, physical conditions and other variables, users should conduct necessary tests to determine the conformity of the product for its intended use. We do not accept liability since the application, use and processing of the products take place beyond our control and supervision. Moreover, our liability for breach of warranty is exclusively limited to replacement of the product or refund of its price and we are not liable for incidental, indirect or consequential damages under any circumstances.