

iBA KiMYA SAN. ve TiC. A.Ş.
1. Organize Sanayi Bölgesi
Oğuz Caddesi No:22
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PE28

Technical Data Sheet

Description

PE28 is a Qualicoat Approved thermosetting powder coatings based on polyester resins designed for exterior applications. It provides decorative and durability characteristics combined with excellent overall performance. It has very good UV and yellowing resistance. It is designed specifically for architectural applications where colour and gloss retention are critical.

Characteristics

Available for all RAL colours

One coat finishes

Good yellowing resistance

Very Good UV resistance

Suitable for most exterior environments

Qualicoat Approved (P-0275)

10 years guaranteed performance on correctly pre-treated aluminium

Applications

Window and door systems

Dish antenna

Garden tools

Architectural applications

Product Properties

UV Resistance Very good UV resistance. Qualicoat approved (P-0275)

Flow out Excellent

Surface Gloss GL – Semigloss HR

Specific gravity 1.5-1.8 gr/cm3 (low with dark colours, high with light colours)

Shelf Life 12 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 200°C 10 minutes recommended

 Metal Temperature (°C)
 Time (minutes)

 190
 15-25

 200
 8-18

 210
 5-14

Film Thickness 60-80 μm (recommended)

Theoretical cons. 8-10 m²/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		
	RAL3012	RAL 7021	RAL 9022
Adhesion (ISO 2409)	0	0	0
Buchholdz (ISO 2815)	>80	>80	>80
Cupping test (ISO 1520)	No cracking at a diameter	No cracking at a diameter	No cracking at a diameter
	of 5 mm	of 5 mm	of 5 mm
Bend test (ISO 1519)	No cracking at a diameter	No cracking at a diameter	No cracking at a diameter
	of 5 mm	of 5 mm	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	No penetration or	No penetration or
	detachment beyond 1 mm	detachment beyond 1 mm	detachment beyond 1 mm
Acetic acid salt spray resistance	Conforming to	Conforming to	Conforming to
(ISO 9227) / 1000 hrs	QUALICOAT specification	QUALICOAT specification	QUALICOAT specification
Accelerated weathering test	Residual Value (not less	Residual Value (not less	Residual Value (not less
(ISO 16474-2)	than 50%)	than 50%)	than 50%)
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

Ferrous metals Zinc phosphate or Iron phosphate Zinc Coated Metals Zinc phosphate or chromate

Application Procedure and Equipment

PE21 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

PE28 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, **PE28** 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.

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 given in this Data Sheet is the result of our research work experience. It is given in good faith and with every belief in its accuracy but cannot be considered as a formal warranty. In accordance with İBA KİMYA, policy of product development, this specification is subject to change without notice.