

ANODITE PLUS

INTRODUCING ANODITE PLUS, THE COLORS OF ANODIZING, THE BENEFITS OF POWDER COATINGS

Anodite Plus is a new generation of architectural polyester powder coatings with a smooth, ultra matte, metallic appearance designed to simulate the colors of anodizing — but with the added advantages of hiding surface imperfections and defects in the metal.

General Features

This thermosetting coating contains polyester resins specially selected for their excellent resistance to UV radiation and outdoor weathering.

The powder forms a decorative film with enhanced outdoor resistance.

The PE/UM were created for coating aluminium components used in architecture and for coating galvanized steel and are approved by Qualicoat for Class 2 and GSB Florida 3.

The metallic effect pigment is fixed on the powder through a bonding process, achieving the best results in terms of application and reproducibility for the metallic effect powders.

Application

Due to its superior performance formulation, this coating is most suitable for exterior applications.

Advised Cycles

The surface to be coated must be cleaned of oils, grease or flash rust. The following pre-treatment of the surface is suggested:

For aluminium	Chromate conversion pretreatment, alternative conversion systems, pre-ano and chrome-free pretreatment according to Qualicoat and GSB specifications
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For galvanized steel	Chromate conversion pretreatment, alternative conversion systems
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Handling and Storage

Store at temperatures lower than 30 °C. Higher temperatures may damage the product. Storage life in original package: 12 months.

Technical Data

TEST METHOD	RANGE
Calc. specific gravity (kg/l):	1.15-1.35
Non volatile content (v/v) (%):	100
70 µm theoretical spread rate (m²/kg):	10-12
Dry film thickness (µm):	60-80
Gloss 60°:	3-9

Application Method

Apply with guns with negative terminal (60/80KV) or triboelectric guns automatically or manually. Use of fluidized bed is recommended.

It is advised to apply the product in layers with the thickness of 60-80 µm and not exceeding 120 µm to cure at 190 °C for 20 minutes (object temperature).

Curing Conditions

For curing, use the given indications.

10-20 minutes	200 °C (object temperature)
20-30 minutes	190 °C (object temperature)

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TECHNOLOGICAL FEATURES AND RESISTANCE TESTS

PERFORMANCE DATA

Test conditions

Curing: 20 min @190 °C
Substrate: 0,8 mm AA5005 (AQT-36)
Film thickness: 60-80 µm

Adhesion ISO 2409	GT0
Buchholz Hardness ISO 2815	> 80
Erichsen Cupping ISO 1520	> 5 mm (no sign of detachment)
Impact Resistance ISO 6272-2	> 25 Nm (no sign of detachment)
Cylindrical Mandrel Bending ISO 1519	5 mm (no sign of detachment)
Resistance to Humidity ISO 22479	24 cycles No infiltration greater than 1 mm on either side of the cross, no change in color, no blistering greater than (S2) according to ISO 4628-2
Acetic Salt Spray ISO 9227	1,000 hours, no blistering greater than (S2) according to ISO 4628-2, maximum 16 mm ² infiltration over a scratch length of 10 cm
Mortar Resistance EN 12206-1 by 5.9	According to Qualicoat requirements
Humidity Chamber ISO 6270	1,000 hours, no blistering greater than (S2) according to ISO 4628-2
Test Water Spot	(Qualicoat specific test) dL < 4
Test Martindale CEN/TS 16611	Residual gloss > 30%
Accelerated Weathering ISO 16474-2	1,000 hours, gloss retention > 90%, color change not greater than 50% of the limits prescribed by Qualicoat
Florida Weathering ISO 2810	3 years exposure, gloss retention > 50%, color change shall not exceed the maximum values stipulated in Qualicoat

Note to User

The mechanical tests of the PE/UM are carried out according the Qualicoat specifications.

The information contained in this document, while based on evidence and reliable methods, cannot be considered exhaustive.

This information is current to the date of issuance of this data sheet; therefore it is the user's responsibility to verify that the data provided on this sheet is current to the date of the product.

The user, under their own responsibility, shall respect all the existing provisions on hygiene and safety and shall verify every time the features and the specific and appropriate way to use the product because the user's respect of the provisions is not under the producer's direct control.

The manufacturer does not guarantee nor assume any liability or responsibility for harm that might result from a misuse of the product or for damages that have arisen after the product's distribution.