

Technical Data Sheet

Alesta® AG AntiGraffiti Outdoor



The information given in this datasheet is generic for the range ALESTA® AG AntiGraffiti Outdoor. Specific product properties can slightly differ. For specific TDS, please contact us.

Product Description

ALESTA® AG AntiGraffiti Outdoor is a polyester based powder coating containing high performance carboxyl polyester resin. ALESTA® AG Outdoor is an anti-graffiti powder coating which offers excellent chemical resistance, very good weathering resistance, corrosion and mechanical properties. The ALESTA® AG AntiGraffiti Outdoor range is particularly appropriate for graffiti exposed fixtures for outdoor or indoor use: construction market, urban furniture, slot machines, cash dispensers.

Formulated and tested in accordance to the German Norm DIN12206-1:2004. For more details please contact us.

Products

ALESTA® AG AntiGraffiti Outdoor

Products exist in smooth finish and can be formulated in a wide range of colours.

Packaging: 15 or 20 kg in plastic bag and cardboard box (depending on specific gravity).

Approvals

Qualicoat : P-1240 (Ge)

GSB : 161d (Ge)



Gütegemeinschaft Anti-Graffiti e.V.
Bestelltes Prüfinstitut
No. 01-23-06-1999

Gütegemeinschaft Anti-Graffiti Dr. Kupfer

This powder coating complies with the European Directives "Restriction of the use of certain hazardous substances" 2002/95/EC and 2011/65/EU (RoHS).

Colours

Can be formulated in any colour in glossy appearance.

Please contact us for further details.

Substrates

Any ferrous or non-ferrous metals

The ALESTA® AG AntiGraffiti Outdoor range is particularly appropriate for graffiti exposed fixtures: construction market, urban furniture, slot machines, cash dispensers.

Substrate Preparation

On aluminium, steel and galvanized steel: degreasing followed by a chemical conversion to attain the required level of anticorrosion protection.

On steel and galvanised steel, it is possible to use our anticorrosion protective primers such as ALESTA® ZeroZinc anticorrosion powder primer providing excellent corrosion protection (please contact us).

Physical Properties

Specific Gravity	1,2 – 1,8
Particle Size distribution	100 % < 160 microns

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The following performances have been obtained under the conditions described below and in laboratory. Actual product properties such as gloss, colour and finish may vary according to condition of application.

Product Performance / Film Properties			
CONDITIONS			
Aluminium panels	5005 AA, 0.8 mm (AA6060 or AA6063 for acetic Salt Spray)		
Surface pretreatment	Chemical conversion		
Film Thickness	70 µm +/- 10		
Curing Conditions	12' @ 180°C (object temperature)		
TESTS	SPECIFICATIONS		AG Outdoor
	N°	DATES	
Thickness	EN ISO 2360	2003	60-80 microns
Gloss @ 60°	EN ISO 2813	1999	70 – 90 units
Adhesion	EN ISO 2409	2007	Class 0
Buchholz	EN ISO 2815	2003	≥ 80
Erichsen	EN ISO 1520	2006	≥ 5 mm
Cylindrical flexibility	EN ISO 1519	2002	≤ 5 mm
Kesternich (SO2)	EN ISO 3231	1997	24 cycles
Acetic salt spray	EN ISO 9227	1990	1000 hours
Impact resistance	EN ISO 6272	2004	≥ 2.5 Nm
Resistance to boiling water			No defect or peeling after 2 hours
Humidity Chamber	EN ISO 6270-2	2005	1000 hours
Weathering (Florida)	ISO 2810	1 Year	
Qualicoat		Residual Gloss : ≥ 50 % Colour change : Δ E : according to Qualicoat requirements (appendix A7)	
GSB		Residual Gloss : ≥ 50 % Colour Change ΔL*, ΔC* : according to GSB AL 631 section 9.19.1	
Accelerated weathering	EN ISO 11341	1000 hours exposure Xenon Lamp	
Qualicoat		Residual Gloss : ≥ 50 % Colour change: Δ E : according to Qualicoat requirements (appendix A7)	
GSB	DIN EN ISO 11507	300 hours exposure QUV-B Residual Gloss : ≥ 50 %	

Curing Window

- Advice & limits:**

-> Can be cured using a variety of methods, e.g. IR, convection, combi ovens.

-> Avoid rapid temperature increase.

-> In direct gas ovens, combustion by-products may cause significant colour changes (for specific advice, please contact us)

General curing conditions ALESTA® AG AntiGraffiti Outdoor

- Object t° / time**

190°C 07' – 22'

180°C 12' – 27'

170°C 17' – 32'

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Application

- Do not mix this product with another powder.
- Substrate should be correctly cleaned before use.
- Application using either manual or automatic electrostatic guns.
- These products can be applied using the Corona electrostatic process. Please contact us for specific TRIBO applications.
- Film thickness: the required application settings will depend upon the geometry of the object being coated as well as the specified film thickness. It is the responsibility of the applicator to make the appropriate adjustments. Certain colours should be applied at higher film thickness to ensure full hiding and it is therefore recommended to minimize thickness variation.
- Despite the great care that is taken during our manufacturing process, small colour or other slight appearance variations from batch to batch are unavoidable for effect colours. Therefore we recommend that a single batch of powder coatings should be used to coat parts that will be subsequently assembled together. Differences are more likely with effect powder coatings such as metallic, pearlescent, speckled, textured and combinations thereof. Differences will be more easily visible on large coated parts such as cladding panels, flat sheets.
- Recycling of the powder: possible up to 30 % with exception of some metallic and pearlescent.

Cleaning Instructions

Cleaning should only be done with agents which are approved and considered in the report or in our cleaning instructions. For this purpose only cleaning companies which are certified by the quality control association Anti-Graffiti should be hired.

RAL-Gütegemeinschaft Anti-Graffiti e.V.
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10415 Berlin
Germany

Recommended Application

These agents remove almost all spray paints and waterproof pens from surfaces coated with ALESTA® AG AntiGraffiti Outdoor products. The safety and processing instructions given by the detergent manufacturer have to be respected.

Cleaning Procedure

Cleaning should take place immediately after detecting the graffiti damage. A longer endurance of the graffiti may have the effect that they can not be removed completely. The cleaning agent has to be applied e.g. by a spray nozzle onto the surface to be cleaned. Immediately after application clean wipes have to be used to remove the Graffiti. It is recommended to keep the exposure time of the cleaning agent to a minimum as too long exposure might cause damages of the AG coating. Please neutralize with water after application. In general, after 24 hours the visual appearance of the initial state is achieved again. During the time the agent diffuses out the coating. Avoid any mechanical stress during this time. This procedure may be repeated if necessary. The ALESTA® AG AntiGraffiti Outdoor powder coating has been designed for removing Graffiti up to 5 times. We are not liable for any damages to the coating if the cleaning instructions are not followed.

Cleaning Agents

The following agents are tested and approved for permanent removal of graffiti on ALESTA® AG AntiGraffiti Outdoor coated surfaces:

P SCRIBEX 500 (HENKEL)
ARCANE US 226 liquid or gel (ARCANE INDUSTRIES)
SOCOSTRIP T4210P (SOCOMORE)

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Approvals

The ALESTA® AG AntiGraffiti Outdoor properties have been confirmed by an independent and accredited test institute, the RAL Quality Assurance Association for Anti-Graffiti e.V. (Report No. AG 13-2119).

Storage Stability

12 months @ 35° C

Shelf life applies to materials stored in sealed plastic bags under dry and cool conditions i.e. temperatures below 35°C.

Safety

Consult the Safety Data Sheet prior to use

The information provided herein corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since Axalta cannot anticipate all variations in actual end-use conditions Axalta makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights.

The information given in this datasheet is generic for the Alesta® AG AntiGraffiti Outdoor range. For specific products within the range, please consult us.

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