

# Alesta® AG

## AntiGraffiti AG Transportation

### AG00000101621 CLEARCOAT

AG Transportation is a polyurethane powder coating with superior antigraffiti properties specially developed for railway applications and urban furniture. Suitable for both indoor and outdoor use, AG Transportation powder coatings are characterized by exceptional chemical resistance and ease of cleaning.



#### Characteristics

- Gloss Smooth
- Clearcoat
- Corona
- Antigraffiti

#### Usage Area

- Urban furniture, cash dispensers and electrical charging terminals
- Railway industry



#### Approvals

- Railway SNCF approved product according to STM N-801
- This powder coating complies with the European Directives "Restriction of the use of certain hazardous substances" 2011/65/EU and 2015/863/EU (RoHS)



#### Special Application Advice

- Clearcoat or semi-transparent coating. If applied over E-coat or other epoxy-based primer, delamination may occur when exposed to outdoor weathering/UV light. Colour will vary depending of substrate and film thickness. Please contact Axalta for advice.
- When using Alesta® Clearcoat as part of a 2-layer system, adequate testing (e.g. cross cut test) should be performed to confirm suitability before starting full production.

The following data has been obtained under laboratory conditions as described below. Actual product properties such as gloss, colour and finish may vary depending on application conditions.



#### Test Conditions

- |  |                     |
|--|---------------------|
| • Curing Conditions (object temperature) | 7 min @ 200°C       |
| • Substrate                              | 0,8 mm Steel Panels |
| • Film thickness                         | 45 ± 5 µm           |
| EN ISO 2360                              |                     |

#### Physical Data

- |            |            |
|------------|------------|
| • Density  | 1,17 g/cm³ |
| calculated |            |



## Product Performance / Film Properties

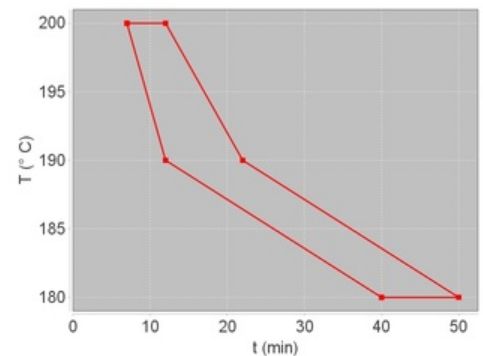
Gloss @ 60° EN ISO 2813	VISUAL
Efficiency test NF F31-112	No degradation, softening or discoloration ( $E < 1$ ) of the coating after 3 cycles of graffiti application and removal
Direct Impact Resistance EN ISO 6272	1 kg / 30 cm (no sign of detachment, cracks permitted)
Adhesion EN ISO 2409	GTO



## Curing Conditions (object temperature)

Can be cured using a variety of methods, e.g. IR, convection, combi ovens. In direct gas ovens, combustion by-products may cause significant colour changes (for specific advice, please contact us).

7-12 min @ 200°C  
12-22 min @ 190°C  
40-50 min @ 180°C



## Storage Stability

12 months/30°C  
Shelf life applies to materials stored in sealed plastic bags under dry and cool conditions.



## Substrate Preparation

- Surface preparation should be chosen according to the type of substrate and required performance, and should be tested beforehand using appropriate test methods.
- Corrosion resistance may be further enhanced by the use of our Alesta® ZeroZinc protective primers (please contact us for further information).
- On aluminium, steel and hot-dip galvanized steel: both chemical pre-treatment and mechanical surface preparation are compatible with Alesta® AG.
- The chosen alloy of aluminium may affect performance in terms of adhesion, mechanical properties and corrosion resistance.
- AG Transportation has reduced mechanical properties in comparison with standard powder coatings. It is mandatory to check adhesion and mechanical properties on the chosen substrate and surface pretreatment prior to full production.
- AG Transportation cannot be overcoated with itself.
- Before starting your project, we recommend that you coat prototypes to confirm suitability and consult Axalta technical services for more advice.



## Application

- Do not mix this product with other powder coatings.
- Substrate should be correctly cleaned before use.
- Can be applied with manual or automatic guns.
- Film thickness: application settings will depend upon the geometry of the object being coated as well as the required 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 coverage and therefore colour homogeneity. Below this limit, colour variation may occur due to differences in film thickness.
- Great care is taken during our manufacturing process but small variations in colour and/or appearance are unavoidable with effect colours. Therefore we recommend that a single batch of powder coating 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 etc.
- Recycling of the powder: possible up to 30 % for solid colours. For special finishes (for example metallic, pearlescent, speckled), please refer to our website and the 'Metallics are us - Tips for Users' guide.



## Comments

- Cleaning Agents: The following agents are tested and approved for permanent removal of graffiti on Alesta® AG Transportation coated surfaces: BONDERITE C-MC 300 (HENKEL), ARCANE US 226 liquid or gel (ARCANE INDUSTRIES).
- Cleaning Instructions: Cleaning should only be done with agents that have been approved by certifying bodies. Cleaning should take place immediately after detecting the graffiti damage. If the graffiti is allowed to remain in contact for a long period of time, it may become impossible to remove completely. Refer to the qualifying organisation for specific cleaning instructions. We are not liable for any damages to the coating if the cleaning instructions are not followed.
- Certain cleaning agents may cause damage to the appearance of the coating. We recommend testing a small inconspicuous area first to confirm suitability. Please contact us for specific questions.
- In instances where the coating will be subjected to additional processes (such as printing, labelling, overcoating, postforming, gluing, application of sealant or any other post-treatment), adequate testing should be performed to confirm suitability. Prototypes should be prepared under conditions that are representative of the final production process.
- Coated parts should be packed after they are fully cooled using suitable materials that are free of plasticizers. Packaged parts should be stored under cover to avoid the formation of condensation (for example under plastic wrapping film) which could result in permanent marks on the surface of the coating.



## 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 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.

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