

Alesta® ZN

Anticorrosive Primer ZN Zinc

ZN70017085921 GREY

Alesta® ZN is Zinc-Rich anticorrosion Powder Primer designed to protect steel parts against corrosion under severe climates or environments.



Characteristics

- Semi Gloss Smooth
- Solid
- Tribo/Corona

Usage Area

- Protection and decoration of interior parts
- Gas or liquid tanks, pipelines, structural steelwork, trucks, trailers & car parts



Approvals

- This powder coating complies with the European Directives "Restriction of the use of certain hazardous substances" 2011/65/EU and 2015/863/EU (RoHS)

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) 15 min @ 150°C
- Substrate 0,8 mm Iron phosphated & passivated steel panels
- Film thickness 50 ± 5 µm
EN ISO 2360

Physical Data

- Density 2,96 g/cm³
calculated



Product Performance / Film Properties

Gloss @ 60° EN ISO 2813	70 ± 10
Impact Resistance EN ISO 6272	1 kg / 50 cm
Adhesion EN ISO 2409	GT0
Erichsen Cupping EN ISO 1520	6 mm
Cylindrical Mandrel Bending EN ISO 1519	8 mm



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).
- For optimum intercoat adhesion, partial cure of the primer is recommended prior to application of the topcoat. This should be followed by full cure of the combined coating system according to the topcoat curing window.
- Alternatively, the primer can be fully cured prior to the application of the topcoat.

Object temperature

Partial cure:
5 min @ 140°C

Full cure:
12 min @ 150°C

This is an object temperature curing window and sufficient time for heat-up must be added. This time will depend on metal thickness as well as the temperature setting and airflow in the oven.



Storage Stability

12 months/35°C
Shelf life applies to materials stored in sealed plastic bags under dry and cool conditions.



Substrate Preparation

- Both chemical and mechanical surface pretreatments are compatible with Alesta® ZN.
- Surface pretreatment has to be defined depending on type of substrate and required performance.
- Substrate must be correctly prepared and dried before using ZN70017085921 and surface should be free of all contamination such as rust, oxide scale, oil and grease, old paints etc.
- Grit blasting with special requirements improve adhesion to the substrate:
 - Cleanliness: Sa 2 ^{1/2} minimum according to ISO 8501
 - Roughness: Ra 6/12 or Medium G according to ISO 8503-1 standard
 - No dust after blowing up the surface (tape test according to ISO 8502-3 standard)



Application

- Do not mix this product with other powder coatings.
- 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. Optimum coating performance will be obtained with a film thickness of 60-100 µm.
- ZN70017085921 is easily overcoatable with specified Alesta® topcoats without sanding or any other preparation* (within 12 hours)
*Cleaning is necessary if primer surface becomes contaminated (dust, oil etc.)
- All other conditions must be checked before use with an adhesion test.
- Recycling of the powder: possible up to 30 %.



Comments

- Certain chemicals or domestic cleaning products can cause damage to the appearance of the coating. Please test a small inconspicuous area first to confirm suitability.
- Please contact us for specific questions.
- 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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