

Series 207

POWDER COATING FOR RAILROAD CARS BASED ON EPOXY-POLYESTER CERTIFIED ACC. TO DBS 918 340 FOR DECORATIVE INTERIORS

Applications

- Railroad cars
- Decorative interior as per DBS 918 340
 - Product qualification no. 1 on aluminum
 - Product qualification no. 8 on steel
- · Ceiling tiles
- Liner panels
- · Seat frames

Product details

Packaging In original boxes of 20 kg each

Density (ISO 8130-2) 1.2 - $1.7\ g/cm^3$ depending on the shade

Theoretical car

Theoretical cover- with 60 μm film thickness: 9.8 - 13.8 m^2 /

age

Shelf life

kg depending on density (see most re-

cent edition of data sheet no. 1072)

Use by: see date on Product label; dry below 25°C,

do not expose to direct heat

(Please note, in case of customer-specific blanket orders or storage agreements, which by their nature are stored for an extended period of time, the shelf life date is calculated from the date of the original production.)

Surface

Surface	Gloss level
smooth <i>gloss</i>	ca. 80 – 95*
smooth semi-gloss	ca. 50 – 75*
smooth <i>matte</i>	20 - 35*
fine texture matte	_

*Gloss level acc. to ISO 2813/60° angle (not applicable to metallic effect powder coatings). The measured gloss level of effect powder coatings can diverge from the details given in this product data sheet. The production of tolerance samples is urgently recommended.

Properties

- resistance to cleaning products as per DBS 918 340
- resistance to graffiti removal products as per DBS 918 340
- · very good mechanical properties
- good storage stability

Pretreatment (alternatives)

The overview matrix below shows the common methods depending on different substrates. In selecting the proper type of pretreatment please observe the suitability of the type of powder coating for a desired application according to the guidelines of this Product Data Sheet.

	Alu- minum	Steel
Degreasing	0	0
1) Chromating	0	
²⁾ Anodization	0	
²⁾ Chrome-free	0	
Iron phosphating		0
Zinc phosphating		0
Blasting		0
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acc. to EN 12487
 acc. to the GSB quality and testing regulations.

Processing

Korona, modification for tribo processing* available on request

Note regarding tribo processing

* Suitability for tribo processing must be verified on the coating system prior to actual application. In addition, please also consult our metallic effect guidelines for application in their latest version.

Note regarding fine textures

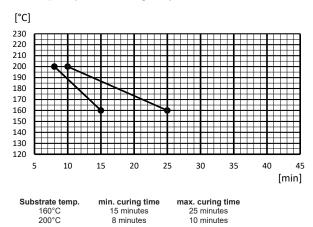
When using glues and screen printing, the adhesives must be tested for suitability.

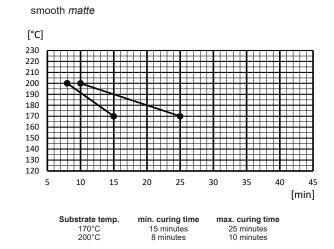


Cure parameters

(Substrate temperature versus curing time)

smooth gloss | smoothsemi-gloss | fine texture matte





Please observe cure parameters closely!

Note

Effect and color differences between laboratory sampling and actual production are to be expected.

Test results

Tested on a 0.8-mm thick, chrome-free pretreated aluminum panel and Zn-phosphated steel plate based on tests performed under laboratory conditions. Actual product performance may vary due to product-specific properties such as gloss, color, effect and finish as well as application- related and environmental influences.

Test method	Test	Series 207 smooth <i>gloss</i>	Series 207 smooth semi-gloss	Series 207 smooth <i>matte</i>	Series 207 fine texture <i>matte</i>		
ISO 2360	Film thickness recom- mended	60-80 μm	60-80 μm	60-80 µm	70-90 μm		
ISO 2813	Gloss level - 60°	80-95	50-75	20-35	matte look		
ISO 2409	Crosscut test / adhesion 1 mm cutting distance	0					
ISO 1519	Mandrel bend test Cracking of coating	≤ 12 mm not permitted					
ISO 1520	Cupping test Cracking of coating	≥ 3 mm Permitted, but no detachment from substrate					
ASTM D 2794	Dynamic impact test Slight cracking of coating	25 cm/1 kg Permitted, but no detachment from substrate					
ISO 9227	Corrosion resistance – acetic salt spray test Aluminum AASS 500h	creep at score ≤ 1 mm					
	Corrosion resistance – neu- tral salt spray test Steel NSS 500h	creep at score ≤ 1 mm					
ISO 6270-2 (CH)	Determination of resistance to humidity (continuous condensation) 500 h	No blistering / formation of rust					
		Hazard level: HL1 / HL2 / HL3					
EN 45545-2	Fire protection in railroad cars – Requirements for fire behavior of materials and	Requirement sets for aluminum: R1, R6 and R7 DB-ST-AU-17-52391-019-1.1; DB-ST-AU-17-52391-019-1.2					
	components	Requirement sets for steel: R1, R6, R7 and R17 DB-ST-AU-19-57482-008-2.1					



Processing instructions

The guidelines for application (data sheet 1213) must be strictly observed. The Product Data Sheets, Technical Information Sheets and the guidelines for application each in their latest version, are available as a download at www. tiger-coatings.com.

Disclaimer

Our verbal and written recommendations for the use of our products are based upon experience to the best of our knowledge in accordance with present technological standards. These are given in order to support the buyer or user. They are non-binding and do not constitute any contractual legal relationship or additional obligation from the purchase agreement. They do not release the purchaser from verifying the suitability of our products for the intended application at his own responsibility. We warrant that our products are free of flaws and defects to the extent as stipulated in our Terms of Delivery and Payment.

As part of our duty to inform, we modify our product information periodically according to technical progress. Therefore, please visit the download area of www.tiger-coatings.com to make sure you have the most current version of this Product Data Sheet. TIGER Coatings GmbH & Co. KG reserves the right to make changes to the Product Data Sheet without written notification.

This Product Data Sheet substitutes any and all previous Product Data Sheets and notes for customers published on this subject matter and is only intended to give a general product overview. Please request specific information for products outside of our standard product list (latest version).

The Technical Information Sheets and the Terms of Delivery and Payment each in their latest version, available as a download at www.tiger-coatings.com, form an integral part of this Product Data Sheet.

certified according to EN ISO 9001 / 14001 IATF 16949



TIGER Coatings GmbH & Co. KG

Negrellistrasse 36 | 4600 Wels | Austria
T +43 / (0)7242 / 400-0
E powdercoatings@tiger-coatings.com
W www.tiger-coatings.com

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