# **Applications**

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

## **Product details**

Packaging In original boxes of 20 kg

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

Theoretical coverage

With 60  $\mu m$  film thickness: 9.8 - 13.8 m²/kg depending on density (see most re-

cent edition of data sheet no. 1072)

Shelf life Use be

Use before: see date on product label (12 months); dry below 25°C, protect

against the influence of 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>	80 – 95	
smooth semi-gloss	50 – 75	
smooth <i>matte</i>	20 – 35	
fine texture matte	_	

<sup>\*</sup> Reflectometer value 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 for decorative interior applications
- · very good mechanical properties
- good storage stability

# **Pretreatment (alternatives)**

The overview matrix below shows the common methods depending on different substrates. Please consider the suitability of the respective powder coating series for a desired application according to the guidelines of this data sheet.

	Alu- minum	Steel
Degreasing	0	0
1) Chromating	0	
<sup>2)</sup> Anodization	0	
<sup>2)</sup> Chrome-free	0	
Iron phosphating		0
Zinc phosphating		0
Blasting		0
	1	

Applications: I = interior

acc. to EN 12487
 acc. to the GSB quality and testing regulations.

# **Processing**

Corona, modification for tribo processing\* available on request.

### Note regarding tribo processing

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

#### Note regarding fine textures

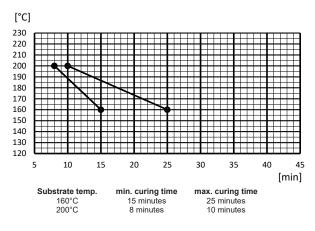
Verify the suitability and adhesion when using glues and screen printing.

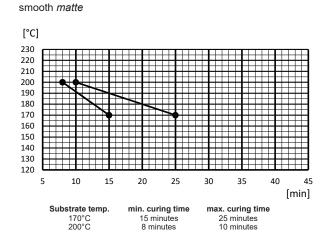


# **Cure parameters**

(Substrate temperature versus curing time)

smooth gloss | smooth semi-gloss | fine texture matte





The curing curves must be observed.

## **Test results**

Tested under lab conditions on 0.8 mm thick, chrome-free pretreated aluminum panels (EN AW-5005 | Nabutan 310) and zinc-phosphated steel plates (DC01 | Gardobond 26S/6800/OC). Cured according to the corresponding cure parameters. Actual product performance may vary due to product-specific properties such as gloss level, color, effect and finish as well as application- related and environmental influences.

Test method	Test	Series 207 Smooth	Series 207 Fine texture
ISO 2360	Film thickness recommended	60-80 μm	70-90 μm
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	
ISO 6272-1	Direct impact test on the coating Slight cracking of coating	25 cm/1 kg Permitted, but no detachment from substrate	
180 0227	Corrosion resistance - acetic salt spray test Aluminum AASS 500h	Creep at score ≤ 1 mm	
Corrosion resistance - neutral 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	
Fire protection in railroad cars EN 45545-2 Requirements for fire behavior of materials and components	Hazard level: HL1 / HL2 / HL3		
		Requirement sets 1-coat: R1 / R2 / R3 / R6 / R7 / R8 / R17	
'		Requirement sets 2-coat: R1 / R2 / R3 / R7 / R8 / R17	



### Note

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

# **Processing instructions**

The guidelines for application (data sheet 1213) must be strictly observed. The latest versions of the data sheets, technical information sheets and guidelines for application are available for download at www.tiger-coatings.com.

## Chemical resistance

The required chemical resistance of a powder coating depends on the product and therefore is best decided in consultation with the parties to the contract before the planning phase depending on the application and the known contaminants. Agreement is particularly important with regard to the requirements and the test method, which can be based on EN ISO 2812-1 "Coating materials - Determination of resistance to liquids". The test and exposure time as well as the concentration of contaminants must also be defined.

## **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.

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Series 207