

Series 58 highly durable

HIGHLY WEATHER RESISTANT POWDER COATING FOR ARCHITECTURAL APPLICATION
BASIS: POLYESTER

Typical application

- Application by Certified Applicators
- high performance architectural coatings

Product details

Standard Packaging In original boxes of 20 kg each

Specific Gravity (ISO 8130-2) 1.2-1.6 g/cm³ depending on pigmentation

Theoretical Coverage at 60 µm film thickness: 10.4-13.8 m²/kg depending on specific gravity (please see also Information Sheet no. 1072 - latest edition)

Storage Stability Use before: see printed date on product label; under dry conditions at no more than 25 °C, avoid direct and extended heat exposure

(The shelf life of custom made blanket orders or other stock agreements which by their nature are stored over longer periods is determined by the original production date.)

Features

- excellent weatherability
- good flow properties
- good storage stability
- batch consistency of RAL colors acc. to VdL guidance no. 10

Finish

Finish	Gloss
smooth <i>glossy</i>	80 – 95*
smooth <i>semi gloss</i>	63 – 77*
smooth <i>matte</i>	20 – 30*
Available in selected colors only.	

* Gloss level acc. to ISO 2813/60° angle (doesn't apply to metallic effect powder coatings). The measured gloss level of effect powder coatings can diverge from the details given in this product datasheet. The creation of tolerance samples is urgently recommended)

Pre-treatments

The following table reflects the common methods of pretreatment with regards to the substrate and applications. 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	
¹⁾ Chromating	○	○
²⁾ Pre-Anodizing	○	○
²⁾ Chrome free	○	○
	E	A

Application: E = exterior; A = architectural

- 1) acc. to EN 12487
- 2) acc. to GSB quality and test regulations. The suitability of this type of pretreatment needs to be established through a boiling water test and subsequent cross-hatch adhesion and adhesive tape removal test.

Processing

Corona, Tribostatic*

* Suitability for tribo processing must be verified prior to actual application. Please consult with the relevant application guidelines for metallic effect powder coatings, latest edition.

Material approvals for colors and metallic effects*

Quality labels for the piecework coating of building components

Finish	AAMA 2604-5
smooth <i>glossy</i>	–
smooth <i>semi gloss</i>	✓
smooth <i>matte</i>	✓
Fire rating	
acc. to EN 13501-1:10180 with result A2-s1, d0**	

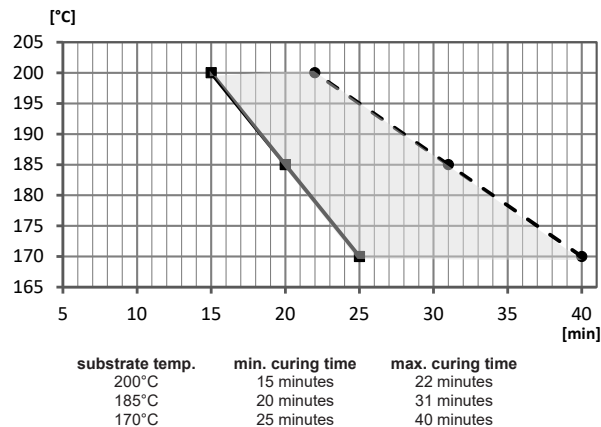
* exemptions prevail

** substrate: aluminium; max. film thickness: 115 µm

Cure parameters

(Substrate temperature versus curing time)

smooth *glossy* | smooth *semi gloss* | smooth *matte*



Please observe cure parameters closely!

Test results

Checked under laboratory conditions on a chromated aluminum test panel which is 0.7 mm thick. 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 58 smooth <i>glossy</i> smooth <i>semi gloss</i> smooth <i>matte</i>
ISO 2360	film thickness recommended	60-80 µm
ISO 2813	gloss - 60°	gl. 80-95 sgl. 63-77 matte 20-30
ISO 2409	cross cut test/adhesion 1 mm cutting distance	0
ISO 1519	mandrel bending test cracking of coating adhesive tape removal	≤ 5 mm permitted no removal of coating
ISO 2815	impression hardness	≥ 80
ISO 1520	cupping test cracking of coating adhesive tape removal	≥ 5 mm permitted no removal of coating
ASTM D 2794	ball impact test cracking of coating adhesive tape removal	20 Inch/pound permitted no removal of coating
ISO 6270-1	determination of resistance to humidity 3000 h	delamination around scribe max. 1 mm
ISO 9227	salt spray test 3000 h	delamination around scribe max. 1 mm
EN ISO 2810	natural weathering in Florida 60 months	residual gloss ≥ 30 %

Processing instructions

The guidelines for application (datasheet 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 and in accordance with present technological standards. These are given in order to support the buyer or user. They are non-committal and do not create any additional commitments to the purchase agreement. They do not release the buyer from verifying the suitability of our products for the intended application. We warrant that our products are free of flaws and defects to the extent as stipulated in our Terms of Delivery and Payment.

As a part of our product information program each of our Product Data Sheets are periodically updated, so that the latest version shall prevail. 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. The information in our Product Data Sheets is subject to change without 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

Series 58