

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 of metallic and fine texture effects 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

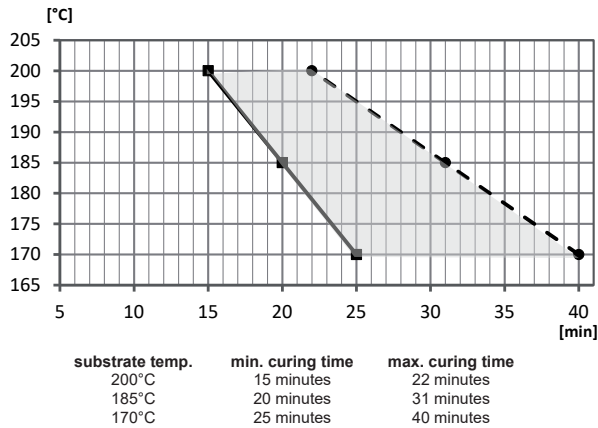
Finish	AAMA 2604-5
smooth <i>glossy</i>	–
smooth <i>semi gloss</i>	✓
smooth <i>matte</i>	✓

* exemptions prevail

Cure parameters

(Substrate temperature versus curing time)

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



Please observe cure parameters closely since mechanical properties will develop before full cross-linking!

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

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EN ISO 9001 / 14001



TIGER Coatings GmbH & Co. KG

Negrellistrasse 36 | 4600 Wels | Austria

T +43 / (0)7242 / 400-0

F +43 / (0)7242 / 650 08

E powdercoatings@tiger-coatings.com

W www.tiger-coatings.com

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