# **Series 29 Architectural Application**

A POWDER COATING FOR METAL FACADES AND STEEL CONSTRUCTION **BASIS: POLYESTER** 

# Typical application

- metal facades
- steel construction
- traffic signals

### **Product details**

Standard Packaging In original boxes of 20 kg each as well as

in Minipacks of 2.5 kg each

**Specific Gravity** (ISO 8130-2)

1.2-1.7 g/cm<sup>3</sup> depending on pigmentation

**Theoretical** Coverage

at 60 µm film thickness: 9.8-13.8 m<sup>2</sup>/kg depending on specific gravity (please see also Information Sheet no. 1072 - latest

**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**

- highly weather resistant
- very good flow properties
- very good mechanical 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 semi gloss	65 – 75*
smooth <i>matte</i>	20 – 35*
fine texture matte	_
rough texture glossy	_

<sup>\*</sup> 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 various substrates 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		Galvanized Steel			Steel				
1)+2) Chromating	0	0	0	0	0	0	0			
<sup>2)</sup> Pre-Anodizing			0							
<sup>2)</sup> Chrome free	0	0	0	0	0					
Iron Phosphating								0		
Zinc Phosphating				0	0	0	0	0	0	0
Blasting								0	0	0
3) Sweeping				0	0	0	0			
	1	Е	А	1	Е	А	S	1	Е	S <sup>4</sup>

Application:

I = interior: E = exterior: A = architectural: S = steel

- acc.to DIN 12487 acc. to GSB and QUALICOAT quality and test regulations.
- only for zinc coated parts > 45 μm
   for a two-coat process TIGER Shield

# Application | Processing

Standard stock item: Corona and Tribo\* Custom order product: Corona only; Tribostatic\* available

\* 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

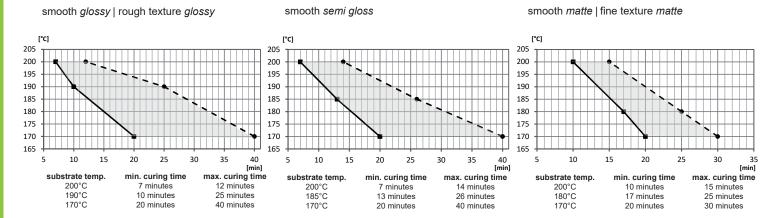
quality labele for the processors occurring or ballan geomperiorite					
Finish	GSB Florida 1	QUALICOAT Class 1	AAMA 2603		
smooth <i>glossy</i>	107m	P-0909	✓		
smooth semi gloss	107q	P-0266	✓		
smooth <i>matte</i>	107i	P-0267	✓		
fine texture matte	174b	P-0630	✓		
rough texture glossy	_	_	_		

exemptions prevail



## **Cure parameters**

(Substrate temperature versus curing time)



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

#### **Test results**

Checked under laboratory conditions on a pretreated 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 29 smooth <i>glossy</i>   smooth semigloss   smooth matte	Series 29 fine texture <i>matte</i>	Series 29 rough texture <i>glossy</i>	
ISO 2360	film thickness recommended	60-80 μm	70-90 μm	90-120 μm	
ISO 2813	gloss - 60°	gl. 80-95   sgl. 65-75   matte 20-35	visual <i>matte</i>	visual <i>glossy</i>	
ISO 2409	cross cut test/adhesion 1 mm cutting distance	0	0	0	
ISO 1519	mandrel bending test cracking of coating	≤ 5 mm not permitted	≤ 5 mm not permitted	≤ 10 mm not permitted	
ISO 2815	impression hardness	≥ 80	not measurable	not measurable	
ISO 1520	cupping test cracking of coating	≥ 5 mm not permitted	≥ 5 mm not permitted	≥ 5 mm not permitted	
ASTM D 2794	ball impact test cracking of coating	20 Inch/pound not permitted	20 Inch/pound not permitted	20 inch/pound permitted	
ISO 6270-1	determination of resistance to humidity 1000 h	delamination around scribe max. 1 mm	delamination around scribe max. 1 mm	delamination around scribe max. 1 mm	
ISO 9227	salt spray test 1000 h	delamination around scribe max. 1 mm	delamination around scribe max. 1 mm	delamination around scribe max. 1 mm	
acc. to EN ISO 16474-3	accelerated weathering UV-B (313 nm) 300 h *	residual gloss ≥ 50 %	residual gloss ≥ 50 %	residual gloss ≥ 50 %	
EN ISO 16474-2	accelerated weathering test xenon-arc radiation 1000 h **	residual gloss ≥ 50 %	residual gloss ≥ 50 %	residual gloss ≥ 50 %	
EN ISO 2810	natural weathering in Florida 12 month	residual gloss ≥ 50 %	residual gloss ≥ 50 %	residual gloss ≥ 50 %	

<sup>\*</sup> acc. to GSB AL 631 (www.gsb-international.de) \*\* acc. to QUALICOAT specifications (www.qualicoat.net)





# **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, 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.

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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



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