

Series 44 Anti-Graffiti

A POWDER COATING FOR EASY CLEANING OF FACADE COMPONENTS
SURFACE SUITED FOR REMOVAL OF GRAFFITI
BASED ON POLYESTER

Typical applications

- noise reduction paneling
- underground railway construction
- metal facades
- clear top-coat for weather-resistant powder coatings

Product details

Standard Packaging In 20 kg packaging

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 20 °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

- this special powder coating allows easy cleaning
- good weather resistance
- very smooth flow

Finish | Colors

- smooth flow - glossy surface 80-95*
- please check the order desk for full pigmented color and clear coatings

* 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)

Pretreatment (alternatives)

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 on page one of this Product Data Sheet.

	ALU-MINUM			GALVANIZED STEEL				STEEL		
Degreasing	○			○				○		
¹⁾ Chromating	○	○	○	○	○	○	○			
²⁾ Anodizing	○	○	○							
²⁾ Chrome free	○	○	○	○	○					
Iron phosphating								○	○	
Zinc phosphating				○	○	○	○	○	○	○
Blasting								○	○	○
³⁾ Sweeping				○	○	○	○			
	I	E	A	I	E	A	S	I	E	S ⁴⁾
Application	I interior			A architectural						
	E exterior			S steel						

¹⁾ acc.to DIN 50939

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.

³⁾ only for zinc coated parts > 45 µm

⁴⁾ for a two-coat process / TIGER Shield

Processing

Corona, Tribostatic*

* Suitability for tribo processing must be verified prior to application. Please consult with the relevant Information Sheets, latest edition.

Please note

A top-coat with a clear exterior grade powder coating over an interior grade powder coating does not produce a weather resistant coating.

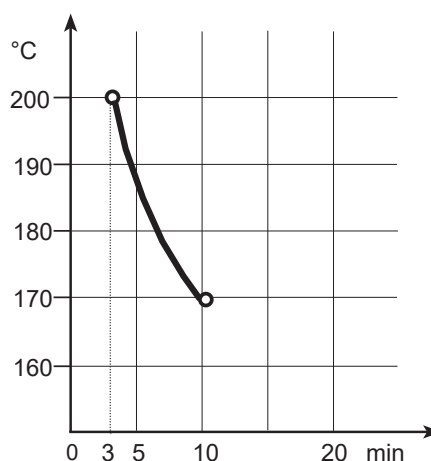
Use only in a one-coat application or as a clear top coat over a powder coated substrate. Colour and gloss of the powder coated base coat may change considerably when top coated with a clear powder coating. Do not use in a two-coat application anti graffiti over anti graffiti!

Cure parameters

(substrate temperature)

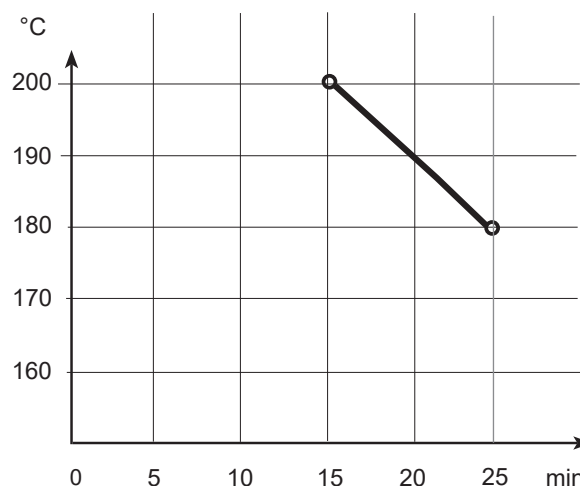
Base-coat TIGER Drylac® Series 29

valid only when top-coated with clear



substrate temperature versus curing time

Clear Top-Coat or any one-coat color TIGER Drylac® Series 44 Anti Graffiti



substrate temperature versus curing time

Please observe cure parameters closely!

Test results

TIGER Drylac® Series 44 Anti Graffiti white

Checked on a chromated aluminum test panel which is 0.7 mm thick. Cure conditions according to the cure curves. When used as a two-coat system, the increase in film thickness will result in a decrease of mechanical properties.

Please note

Due to the reduced mechanical properties it is imperative to verify the suitability for the intended application. Non-colored coatings, e.g. clear coatings may be prone to stress cracks due to the difference in material tension between the substrate and the powder coating. Joint sealants and any other auxiliary products, such as glazing aids, gliding waxes, drilling and cutting lubricants, which come in contact with the coated surface must be ph-neutral and free of substances which may damage the finish. Prior to coating a suitability test at the applicator is therefore highly recommended.

Please mind the effect and color differences between a lab match versus an actual production.

test results	test method	Series 44 Anti Graffiti white
film thickness	ISO 2360	60-80 µm
gloss level - 60°	ISO 2813	80 - 95
cross cut test - 1 mm	ISO 2409	0
impression hardness	ISO 2815	≥ 100
mandrel bending test	ISO 1519	≤ 10 mm
cupping test	ISO 1520	≥ 3 mm
mortar resistance	ASTM D 3260	o.k.
drill mill test		o.k.
kesterich test - 30 cycles	ISO 3231	0,2 l SO ₂ - o.k.
grey scale for assessing change in color	EN 20105-A02	≥ 4
light fastness	EN ISO 105-B02	≥ grade 7
determination of resistance to humidity - 1000 h	ISO 6270-1	max. blistering 1 mm
salt spray test - 1000 h	ISO 9227	max. blistering 1 mm

Certificates

Test lab Dr. Kupfer (regd. Quality Assoc. Anti-Graffiti, Berlin)

Cleaning recommendations

- "Biolon G" by Silco-Tec
- "Graffiti Clean Spray" by ECON-AIR

Chemical resistance

The chemical resistance of a powder coating depends among other things on its formulation. Chemical resistance requirements therefore must be considered according to processing conditions and final use of the finished product. This is best already established during the product specification process. Agreement between all parties involved must be reached about the chemical resistance test method, which may be performed in accordance with EN ISO 2812-1 Lacquers and Paint Products. Test Methods for Surface Resistance to Liquids. It is necessary to also have a common understanding of the requirements for such chemical resistance, such as test duration, test method, reactive time and concentration of the test media.

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.

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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
IATF 16949



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