SERIES 75 - hyper durable

POWDER COATING FOR ARCHITECTURAL APPLICATIONS
BASIS: FLUOROPOLYMER
APPLICATION WITH APPROVED PRETREATMENT, ON ALUMINUM BY CERTIFIED APPLICATORS

Typical applications

By approved applicators only:

- highest performance architectural coatings
- curtain walls
- window frames

Product details

Standard packaging	in original 44 & 55 lb (20 & 25 kg) box and 5 lb (2.5 kg) minipack
Specific gravity (ASTM D792)	approximately 1.4-1.8 g/cm^3 depending on pigmentation
Theoretical coverage	at 2.5 mils (60 µm) film thickness: **47.8-62.5 ft^2/lb (9.8-12.8 m^2/kg)**. (on specific gravity (please see also Information Sheet no.1072 - latest editon)
Storage stability	6 months at no more than 77 °F (25 °C) avoid direct and extended exposure to heat

(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

- outstanding resistance to fading
- outstanding resistance to chalking
- good chemical resistance
- good storage stability
- batch consistency of RAL colors acc. to VdL guidance no. 10

Finish

finish	gloss
smooth *semi matte*	30-50*
solid colors and special effects	

** 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)*

Custom colors are available upon request minimum 100 kg (220 lbs)

Pretreatment (on aluminum)

- Yellow chromating acc. to DIN 50939
- Chrome free pre-treatment please inquire

Please verify the suitability of the pre-treatment acc. to the test specification of AAMA 2605-17 point 8.8.1. and 8.8.2.

Health and safety environment

For HSE-relevant information consult the Safety Data Sheet. Work place regulations are the responsibility of the applicator.

Processing

Corona

Material approvals for colors and metallic effects*

Quality labels for the piecework coating of building components

Health and safety environment

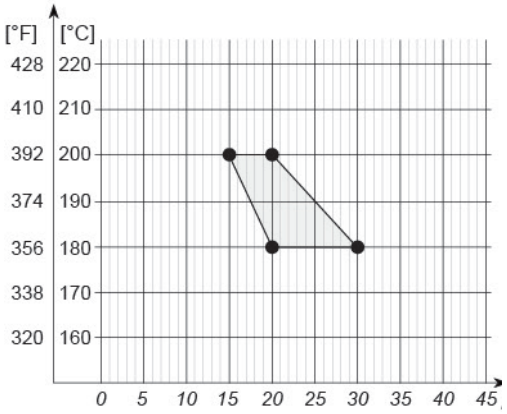
finish	AAMA
smooth *matte*	AAMA 2605-17

** exemptions prevail*

Product data sheet

Cure parameters

(substrate temperature versus curing time)
smooth *semi matte*



substrate temp.	min. curing time	max. curing time
392 °F (200 °C)	15 minutes	20 minutes
356 °F (180 °C)	20 minutes	30 minutes

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

Please note

The curing of TIGER Drylac® Series 75 will result in the emission of small doses of caprolactam, which may cause minor smoke and odor. Provide sufficient ventilation and observe maximum allowable concentration guidelines.
The adhesion of sealants to the powder coated surface may be limited. Therefore their suitability needs to be verified and established separately through testing.

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 75** smooth *semi matte*
ISO 2360	**recommended film thickness** (one coat system)	1.9-2.5 mils (50-65 µm)
AAMA 2605-17 section 8.2	**gloss - 60°**	30-50
AAMA 2605-17 section 8.4.1.1	**cross cut test/adhesion** 1 mm cutting distance	0
AAMA 2605-17 section 8.5	**ball impact test** cracking of coating adhesive tape removal (ASTM D 3359)	20 in/lb permitted no removal of coating
AAMA 2605-17 section 8.8.1	**determination of resistance to humidity** 4000 h	size and number of blisters as shown in figure no. 4, Blister Size No. 8
AAMA 2605-17 section 8.8.2	**salt spray test** 2000 h	delamination around scribe max. 2 mm (<5/64 inch)
AAMA 2605-17 section 8.9.1	**natural weathering** in Florida 10 years	residual gloss ≥ 50%

Cleaning recommendations: refer to the latest edition of TIGER “Cleaning Recommendations” information sheet, Version 00-1005.

Series 75

Please note

Most AAMA 2605-17 compatible coating technologies are based on fluoropolymer systems comparable to the Series 75 – hyperdurable. Given that some of the testing conditions required by the AAMA 2605-17 specification, in particular the long-term Florida exposure, require significant time, full compatibility of this product with the AAMA 2605-17 specifications cannot yet be confirmed. In light of these very long text cycles, the products are, as industry standard, being tested by way of intensive accelerated weathering tests. The performance set out in this Product Data Sheet is based on the respective accelerated weathering data with QUV-A and B tests, as well as references of related coating technologies using comparable polymer systems.

Cleaning recommedations

Please see our Information Sheet latest edition.

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 preset 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.

Series 75

Certified according to ISO 9001 | 14001

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