



Drylac®

Exterior & interior applications
Series 59 Neon

A high luminescent weather resistant powder coating for exterior and interior application

Based on Polyester / TGIC-free

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Typical applications

Bicycles and motorcycles

Sporting goods

Safety railings

Fishing lures

Surfaces not permanently exposed to UV light



Underwriters Laboratories Inc.
(UL) Recognition

Features

High luminescent quality

Good flow

Good coverage

Finish | Colors

- Smooth glossy 80 – 90+*

One-coat system

- Pink¹ 59/30075
- Yellow¹ 59/20053

¹ Limited UV stability

Limited colors can be custom matched (minimum order quantities apply).

For general information please refer to product data sheet for TIGER Drylac® Series 59 exterior & interior applications.

Standard Packaging

44 [lb] boxes
and 5.0 [lb] Minipack

20 [kg] cartons
and 2.5 [kg] Minipack

Specific Gravity (ASTM D792)

approx. 1.4 – 1.8
depending on pigmentation

Theoretical Coverage

at specific gravity 1.5 and film thickness
of 2.5 [mils] / 60 [µm]:

51.5 [sq ft/lb] / 11.1 [m²/kg]

(also please refer to data sheets # 4001 & 4002 in the latest edition)

Storage Stability

6 months
at no more than 77 °[F] / 25 °[C]

*Gloss level acc. to ASTM 523 / 60° angle.



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.

| | Aluminum | 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⁾ |

I interior

E exterior

A architectural

S steel construction

¹⁾ acc. to ASTM B 459

²⁾ acc. AAMA 2603-02 quality and test regulations

³⁾ only for zinc coated parts >45 [µm] / >1.8 [mils]

⁴⁾ for a two-coat process / TIGER Shield

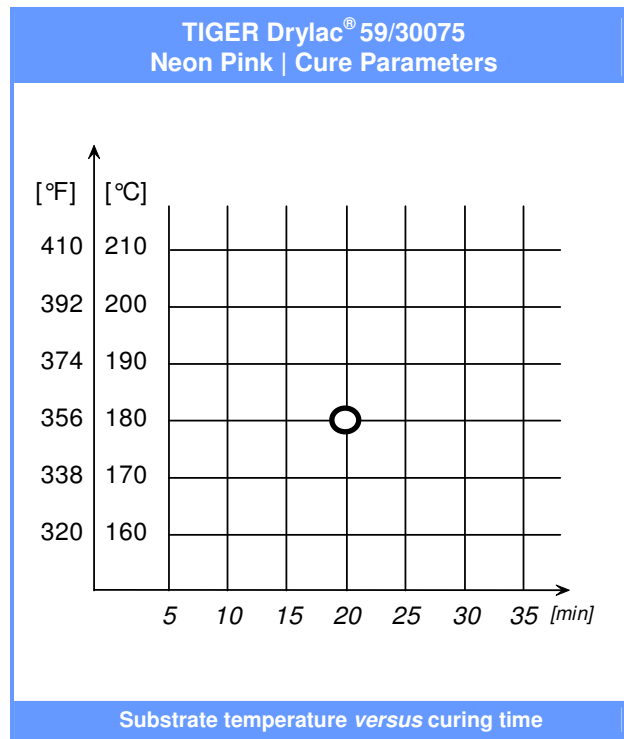
Processing

Corona

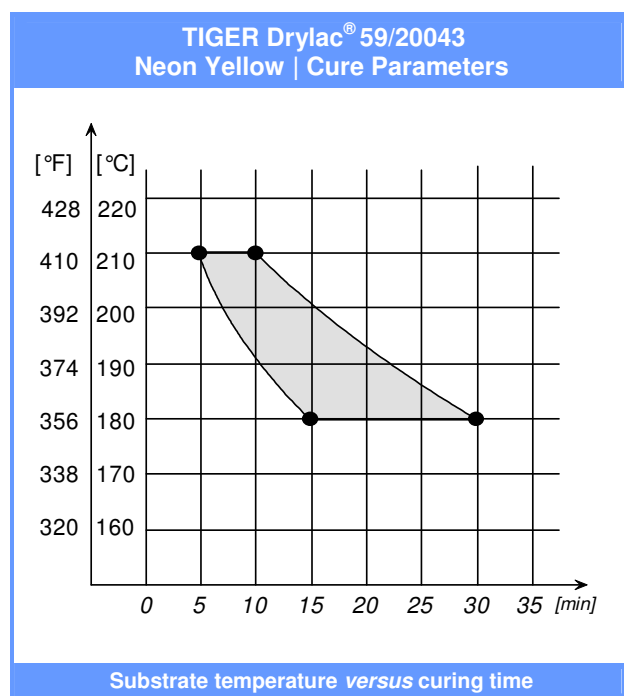
Tribo*

For Tribo / Airstatic Powders please confirm before ordering. Suitability of metallic effects for tribo processing must be verified prior to application. Please consult with the appropriate data sheets in the latest edition.

Cure parameters (substrate temperature)



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





Please note

Post-bending properties of any part must be verified prior to application. Minor cracks in the coated surface may lead to corrosion.

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.

It is the responsibility of each buyer / applicator to determine whether the UV stability of the TIGER Drylac® Series 59 Fluorescent coatings is appropriate for the intended end use. Due to the inherent limitations of the pigments used to generate these effects, the UV stability is reduced compared to standard opaque colors, such as the RAL range. This reduction can vary from color to color.

Read and understand the Material Safety Datasheet (MSDS) before using.

Test results

Checked on iron phosphated steel test panel Bonderite B-1000 or equivalent. 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.

| Test result | Test method | Series 59/30075 Neon Pink | Series 59/20043 Neon Yellow |
|--|----------------------------|--|--|
| Film thickness | | 2.5 - 3.5 [mils] 60 - 80 [µm] | 2.5 - 3.5 [mils] 60 - 80 [µm] |
| Gloss– 60 [°] | <i>ASTM D523</i> | 80 - 90+ | 80 - 90+ |
| Cross cut tape test | <i>ASTM D3359 Method B</i> | 5B | 5B |
| Impact test 20 [in/lb] | <i>ASTM D2794</i> | Please see note * | no appearance of cracks |
| Pencil hardness | <i>ASTM B3363</i> | H (minimum) | H (minimum) |
| Humidity resistance 500 [h] | <i>ASTM D2247</i> | Max. undercutting 1 [mm] No blistering | Max. undercutting 1 [mm] No blistering |
| Salt spray resistance 500 [h] | <i>ASTM B117</i> | Max. undercutting 1 [mm] No blistering | Max. undercutting 1 [mm] No blistering |

* Applicators are advised that due to the raw materials necessary to achieve the fluorescence impact resistance may be compromised in some cases. In those cases lack of mechanical performance is not a reflection of lack of cure, as is normally the case with polyester based powder coatings, but inherent in the formula. Applicators need to take extra care to assure adequate cure of their parts, and are advised to use chemical resistance based tests (such as PCI method #8 or similar) to assure adequate cure.

Cleaning recommendations: Please refer to our data sheet in the latest edition.



Chemical resistance

The required 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 requirements for such chemical resistance as well as the test method, which may be performed in accordance with PCI test method #8 “Solvent Cure Test”. Furthermore, the test duration and concentration of the test media need to be agreed upon.

As a part of our product information program our product data sheets are periodically updated. Therefore, please check our website for the latest edition. 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.

This product data sheet substitutes any and all previous product data sheet and notes for customers published on this subject matter.



Member of the Powder Coating Institute

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