



Interior applications  
Series 09

**A powder coating for interior applications**  
Based on Epoxy / Polyester hybrid

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**Typical applications**

- Ceiling paneling
- Cladding components
- Store fixtures and shelving
- Office and school furniture
- Radiators
- Machinery parts
- Tools and equipment
- Metal toys

**Features**

- Very good mechanical properties
- Good flow properties
- Excellent coverage
- Good storage stability

**Finish | Colors**

- Smooth glossy 85 - 95\*
- Smooth semi gloss 55 - 65\*
- Smooth matte 20 – 25\*
- Rough texture matte
- Fine texture
- Hammertone
- Antique / Vein
- Metallic & Special effects

A selection of colors available in other finishes (see color charts)

Any other color can be custom matched (minimum order quantities apply).

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

**Standard Packaging**

55 [lb] / 44 [lb] boxes and 5.0 [lb] Minipack  
25 [kg] / 20 [kg] cartons and 2,5 [kg] Minipack

**Specific Gravity (ASTM D792)**

approx. 1.2 – 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



## 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	○	○	○							
3) Chrome free	○	○	○	○	○					
Iron Phosphating								○	○	
Zinc Phosphating				○	○	○	○	○	○	○
Blasting								○	○	○
3) Sweeping				○	○	○	○			
	I	E	A	I	E	A	S	I	E	S

**I** interior

**E** exterior

**A** architectural

**S** steel construction

<sup>1)</sup> acc. to ASTM B 449

<sup>2)</sup> acc. AAMA 2603-02 quality and test regulations

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

<sup>4)</sup> for a two-coat process / TIGER Shield

## Processing

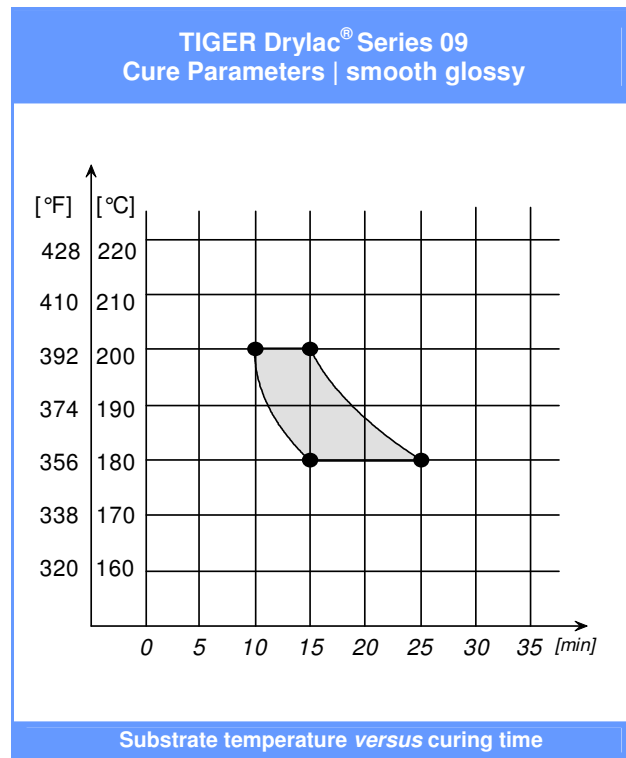
Corona

Tribo\*

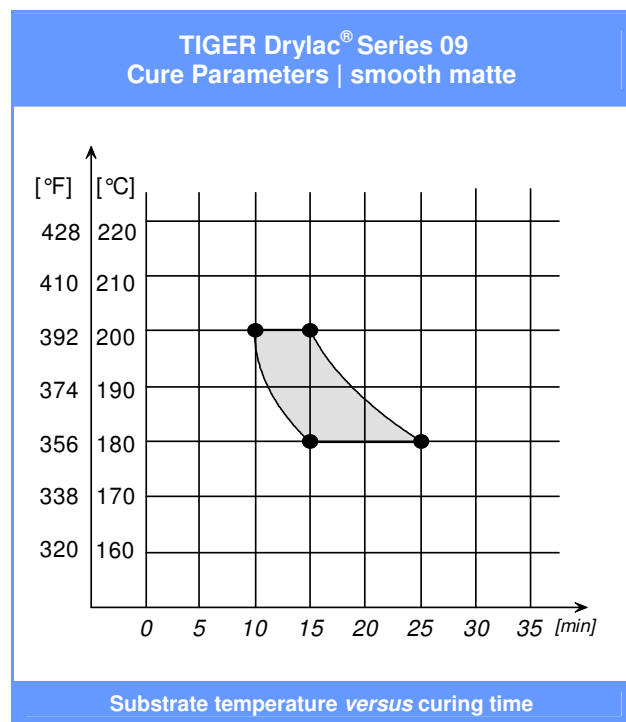
For Tribo / Airstatic Powders please confirm before ordering. Suitability of metallic effects for tribo processing must be verified prior to application. Please consult with the appropriate data sheets in the latest edition.

Since not all powder coatings are suitable for recycling / reclaim, please verify before ordering.

## Cure parameters (substrate temperature)



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





## Please note

For metallic products please observe TIGER Drylac „Application guidelines for metallic effect powder coatings“ in the latest edition.

Top coating with a clear exterior grade powder coating over an interior grade powder coating does not produce a weather resistant coating system.

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.

Please note that generally colors in the red, orange, and yellow range may require an increased film thickness to achieve full hiding.

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 09 glossy	Series 09 matte	Series 09 Rough texture matte
<b>Film thickness</b>		2.5 – 3.5 [mils] 60 – 80 [µm]	2.5 – 3.5 [mils] 60 – 80 [µm]	3.5 – 4.5 [mils] 80 - 110 [µm]
<b>Gloss– 60[°]</b>	<i>ASTM D523</i>	80 - 90	20 - 25	N/A
<b>Cross cut tape test</b>	<i>ASTM D3359 Method B</i>	5B	5B	5B
<b>Mandrel bending test</b>	<i>ASTM D522</i>	≤ 5 [mm] ≤ 1/8 [inches]	≤ 10 [mm] ≤ 5/16 [inches]	≤ 10 [mm] ≤ 5/16 [inches]
<b>Impact test 80 [in/lb.]</b>	<i>ASTM D2794</i>	no appearance of cracks down to the substrate	Minor cracks	Appearance of cracks down to the substrate
<b>Pencil hardness</b>	<i>ASTM B3363</i>	2H [minimum]	2H [minimum]	2H [minimum]
<b>Humidity resistance 500 [h]</b>	<i>ASTM D2247</i>	Max. undercutting 1 [mm] No blistering	Max. undercutting 1 [mm] No blistering	Max. undercutting 1 [mm] No blistering
<b>Salt spray resistance 500 [h]</b>	<i>ASTM B117</i>	Max. undercutting 1 [mm] No blistering	Max. undercutting 1 [mm] No blistering	Max. undercutting 1 [mm] No blistering

**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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