



# Technical Data Sheet

**Product Number:** ZRR231701

**Product Name:** RAL 3003 RUBY RED RPSD POL. SD

**Chemistry:** Polyester Superdurable

**Date:** August 7, 2020

## ***Powder Properties***

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|                               |                      |   |
|-------------------------------|----------------------|---|
| <b>ASTM D5965 (B)</b>         | Specific Gravity     | 1.35± 0.05                                  |
| <b>PCI TECHNICAL BRIEF #8</b> | Theoretical Coverage | 142.4 ft <sup>2</sup> /lb/mil               |
|                               | Shelf Life           | 12 months in climate controlled environment |

## ***Film Characteristics***

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|                                |                                |                |
|--------------------------------|--------------------------------|----------------|
| <b>ASTM D523</b>               | Gloss @ 60°                    | 80 - 100       |
| <b>ASTM D3359 (B)</b>          | Adhesion                       | 5B Pass        |
| <b>ASTM D3363</b>              | Pencil Test (Scratch Hardness) | F Pass         |
| <b>ASTM D7091(B)</b>           | Recommended Film Thickness     | 2.0-3.0 mils   |
| <b>PCI TECHNICAL BRIEF #20</b> | PCI Powder Smoothness          | 6              |
| <b>ASTM D522 (A)</b>           | Flexibility Mandrel            | 1/8" Pass      |
| <b>ASTM D2794</b>              | Indirect Impact                | 140 in-lbs     |
| <b>ASTM D5402</b>              | MEK Resistance                 | 50 Double Rubs |
| <b>ASTM B117</b>               | Salt Spray                     | 3,000 hours    |
| <b>ASTM G154</b>               | UV Resistance                  | 1,000 hours    |

## ***Application***

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Electrostatic Spray, Cold  
Substrate: 0.024 in. CRS, Aluminum  
Pretreatment: Bonderite ® 1000, Parcolene® 60, Chromate

**Cure Schedule**  
(Time at Substrate Temperature)  
10 min @ 375°F

## ***Notes***

This product was designed to meet weathering requirements under AAMA 2604 "5 years south Florida with maximum Delta E < 5 (Hunter) and gloss retention > 30%".

Formulated to visually match RAL K7 international standards

American Standard Testing Method (ASTM)

Powder Coating Institute (PCI)

American Architectural Manufacturers Association (AAMA)

This report cannot be altered or changed without the authorization of the Quality Manager.

## **Vitracoat, Inc.**

2807 Marina Drive Elkhart, IN 46514 Ph: 574-264-6090  
Toll-Free: 888-778-5994 Fax: 574-264-2776 www.vitracoat.com

## **Vitracoat Pinturas en Polvo S.A de C.V.**

Av. Circuito de la Industria Sur 284, Parque Industrial Lerma, C.P. 52000, Estado de Mexico, México, Phone: +(722) 2627000, Fax+(722)2827024  
www.vitracoat.com\*Email:sales@vitracoat.com