



# POWDURA® Epoxy Powder Coating

<u>DESCRIPTION</u>	<u>CHARACTERISTICS</u>	<u>SPECIFICATIONS</u>
<p><b>POWDURA® Epoxy Powder Coating</b> for interior applications offers optimum film properties in terms of adhesion, hardness and chemical resistance and is recommended for functional and decorative applications.</p> <p><b>Advantages:</b></p> <ul style="list-style-type: none"> <li>• Provides outstanding chemical resistance</li> <li>• Adheres to a wide range of substrates, including template phosphatized steel and glass</li> <li>• Excellent hardness</li> <li>• Full color range available</li> <li>• Textured finishes available</li> <li>• Can be formulated to minimize outgasing</li> <li>• Many applications, including:               <ul style="list-style-type: none"> <li>Steel Furniture</li> <li>Refrigeration</li> <li>Hospital Equipment</li> <li>Underhood Automotive</li> <li>Shelving</li> <li>Electrical Equipment</li> <li>Instrument Casings</li> <li>Appliances</li> </ul> </li> </ul> <p><b>Performance Tests</b> (for smooth films only)            Testing performed on Bonderite 1000 panels electrostatically applied and properly cured in an electric convection oven.</p> <p>Cross Hatch Adhesion            ASTM D3359 ..... Excellent</p> <p>Salt Spray Test            ASTM B117 ..... 1,000 hours+ Humidity</p> <p>ASTM D2247, 100°F, 100% RH .. 1,000 hours+ Conical Mandrel</p> <p>ASTM D1737 ..... up to 180°, 1/8" mandrel</p> <p>Impact Resistance, Direct            ASTM D2794 ..... up to 160 in lb</p> <p>Pencil Hardness            ASTM D3363 ..... H Plus</p>	<p><b>Gloss:</b> 2 to 100 units</p> <p><b>Specific Gravity:</b> (per ASTM D792) 1.2 to 2.0</p> <p><b>Recommended film thickness:</b>            Mils 1 - 3</p> <p><b>Package Life:</b> 6 to 12 months, unopened</p> <p><b>Air Quality Data:</b>            Non-photochemically reactive</p> <p>An Air Quality Data Sheet and/or Material Safety Data Sheet are available from your local Sherwin-Williams facility.</p> <p style="text-align: center;"><b>OVEN CURE TABLE</b></p> <p>Cure schedules for Epoxy Powders will follow curve falling within shaded area below.</p> <p>Part Time at Peak Metal Temperature (.0345 inch C.R.S. panel)</p>	<p><b>General:</b> Substrate should be free of grease, oil, dirt, fingerprints, drawing compounds, any contamination, and surface passivation treatments to ensure optimum adhesion and coating performance properties. The use of a chemical conversion coating prior to the application of a powder coating is strongly recommended. Consult Metal Preparation Brochure CC-T1 for additional details.</p> <p><b>Aluminum:</b> A minimum of a 5 stage chrome phosphate metal treatment, or equivalent, is required for good adhesion and optimum coating performance properties.</p> <p><b>Testing:</b> Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion and compatibility prior to full scale application.</p> <p><b>Product Limitations:</b></p> <ul style="list-style-type: none"> <li>• For interior applications only.</li> <li>• Contact your Sherwin-Williams Representative where use of this product at higher than recommended film thickness may be required.</li> <li>• Powdura Epoxy powder coating should be kept in a dry and cool area at temperatures below 75°F (24° C). Shelf life ranges from 6 months to over one year. When not in use, store powder in sealed containers: fine powders are hygroscopic.</li> </ul> <p style="text-align: center;"><b>APPLICATION</b></p> <p>Powder coatings must be applied using suitable electrostatic equipment. Consult your Sherwin-Williams Representative regarding unique applications.</p>

## **CAUTIONS**

Thoroughly review product label for safety and cautions prior to using this product. Please direct any questions or comments to your local Sherwin-Williams facility.

CAUTION! Causes eye irritation, causes skin irritation, may cause allergic skin reaction, respiratory irritant, dust may cause eye and respiratory irritation, dust may form an explosive mixture in air. Avoid breathing dust. Avoid contact with eyes and prolonged or repeated contact with skin. Use protective clothing and NIOSH approved respirator. Do not use near sparks or open flame or any type of ignition source. Wash thoroughly after handling. Use only with adequate ventilation.

First Aid: If on SKIN: Wash thoroughly with soap and water. If in EYES: Flush with water immediately and procure medical attention.

The area adjacent to the coating operation should be properly ventilated. Cure ovens must be exhausted to the outside atmosphere. All dusts are respiratory irritants, inhalation of the dust should be avoided. To avoid static electricity build-up, properly ground all equipment. Provide dust collection equipment with adequate explosion venting; dust clouds of any finely divided organic material can be ignited by open flame or electrical sparks.

DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY. REFER TO MATERIAL SAFETY DATA SHEET FOR ADDITIONAL INFORMATION.

**Warranty Policy:** The seller certifies that all coating delivered to the customer in unopened factory filled containers will meet all pertinent quality standards presented in our current published literature. Since matters of surface preparation, application procedures and other local factors that affect performance are beyond our control, we assume no liability for coating failure other than to supply replacement material for a coating shown to be outside our published quality standards.

Manufacturer shall not be liable for any injuries, damages or other losses, deriving directly or in consequence of the purchaser's use of the product. Purchaser shall determine suitability of this product for his own use, and thereby assumes all risks and liabilities in connection therewith.