



Chemical Coatings

CC-P2

POWDURA® Epoxy Powder Coating

DESCRIPTION

POWDURA® Epoxy Powder Coating for interior applications offers optimum film properties in terms of adhesion, hardness and chemical resistance and is recommended for functional and decorative applications.

Advantages:

- Provides outstanding chemical resistance
- Adheres to a wide range of substrates, including template phosphatized steel and glass
- Excellent hardness
- Full color range available
- Textured finishes available
- Can be formulated to minimize outgassing
- Many applications, including:
Steel Furniture
Refrigeration
Hospital Equipment
Underhood Automotive
Shelving
Electrical Equipment
Instrument Casings
Appliances

Performance Tests (for smooth films only)

Testing performed on Bonderite 1000 panels electrostatically applied and properly cured in an electric convection oven.

Cross Hatch Adhesion

ASTM D3359 Excellent

Salt Spray Test

ASTM B117 1,000 hours+

Humidity

ASTM D2247, 100°F, 100% RH .. 1,000 hours+
Conical Mandrel

ASTM D1737 up to 180°, 1/8" mandrel

Impact Resistance, Direct

ASTM D2794 up to 160 in lb

Pencil Hardness

ASTM D3363 H Plus

CHARACTERISTICS

Gloss: 2 to 100 units

Specific Gravity: (per ASTM D792)
1.2 to 2.0

Recommended film thickness:
Mils 1 - 3

Package Life: 6 to 12 months,
unopened

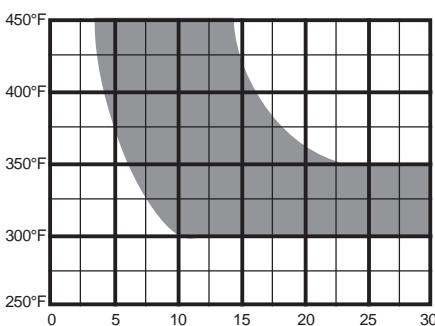
Air Quality Data:

Non-photochemically reactive

An Air Quality Data Sheet and/or Material Safety Data Sheet are available from your local Sherwin-Williams facility.

OVEN CURE TABLE

Cure schedules for Epoxy Powders will follow curve falling within shaded area below.



Part Time at Peak Metal Temperature (.0345 inch C.R.S. panel)

SPECIFICATIONS

General: 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.

Aluminum: A minimum of a 5 stage chrome phosphate metal treatment, or equivalent, is required for good adhesion and optimum coating performance properties.

Testing: 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.

Product Limitations:

- For interior applications only.
- Contact your Sherwin-Williams Representative where use of this product at higher than recommended film thickness may be required.
- 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.

APPLICATION

Powder coatings must be applied using suitable electrostatic equipment. Consult your Sherwin-Williams Representative regarding unique applications.

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| | | <p style="text-align: center;"><u>CAUTIONS</u></p> <p>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.</p> <p>CAUTION! SEE CONTENTS STATEMENT ON LABEL.</p> <p>Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area.</p> <p>Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use.</p> <p>FIRST AID: In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately.</p> <p>SPILL AND WASTE: Remove all sources of ignition. Ventilate and remove with inert absorbent. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.</p> <p>DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.</p> <p>Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure.</p> <p>WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.</p> <p>DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.</p> <p>FOR INDUSTRIAL USE ONLY.</p> <p>SEE MATERIAL SAFETY DATA SHEET. 24242-072103.</p> <p>Note: Product Data Sheets are periodically updated to reflect new information relating to the product. It is important that the customer obtain the most recent Product Data Sheet for the product being used. The information, rating, and opinions stated here pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in customer handling and methods of application which are not known or under our control, The Sherwin-Williams Company cannot make any warranties as to the end result.</p> |
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