



THE #1 CHOICE OF PAINTING PROFESSIONALS®

# ENDURACAT™

Interior Semi-Gloss  
Pre-Catalyzed Waterbased Epoxy  
ENPX50



## DESCRIPTION

**ENDURACAT™** is a high performance, interior, ultra-low VOC, pre-catalyzed, single component water based acrylic epoxy. It has superior adhesion and excellent chemical resistance and washability. It can be used on properly prepared interior metal, wood, drywall and masonry. It is intended for use on interior, high maintenance, institutional or commercial areas like hospitals, schools, hotels and cafeterias, where extra durability and chemical resistance is required.

## PRODUCT DATA

**SOLVENT TYPE:** Waterborne

**FINISH:** Semi-Gloss: 40–50% on a 60° meter

**RESIN TYPE:** Acrylic epoxy

**COLORS:** Can be special ordered or store mixed.

**TINT BASES:** L Tintable White, M Medium, U Ultra Deep

**VISCOSITY@77°F/25°C** (ASTM D 562): 97–102 KU

**MAXIMUM VOC CONTENT:** 50 g/L (as supplied)

**MAXIMUM RAVOC** (Reactivity-Adjusted VOC): 20 g/L

**SOLIDS BY VOLUME** (ASTM D 2697): 37.2% ± 2%

**SOLIDS BY WEIGHT:** 49.9% ± 2%

**WEIGHT PER GALLON** (ASTM D 1475): 10.49 lbs.

### COMPOSITION BY WEIGHT

**Pigment—23.3%**

**Vehicle—76.7%**

\*Prime pigments ..... 20.4 Resins.....23.3

Reinforcing pigments..... 2.9 Water & additives .....53.4

\*Prime pigments include titanium dioxide (TiO<sub>2</sub>), plus all other pigments directly adding to the hiding power of this paint.

### RECOMMENDED FILM THICKNESS PER COAT

Wet: 4 mils

Dry: 1.5 mils

### PRACTICAL COVERAGE PER COAT AT RECOMMENDED DRY FILM THICKNESS

Approximately 325–375 sq. ft. per gallon, depending on surface conditions and application techniques.

**THINNING RECOMMENDATION:** This coating is intended to be applied without thinning or diluting under normal environmental and application conditions. If necessary to maintain good workability, add up to 1/4 pint (4 fl. oz.) of clean water per gallon of coating.

### AVERAGE DRY TIME@77°F/25°C (ASTM D 1640)

To touch: 30–60 minutes

Recoat: 2–4 hours

Dry times and recoat times are temperature, humidity and film thickness dependent.

**PACKAGING:** One-gallon

**STORAGE:** Store in a dry area. Protect from freezing. Protect from temperatures above 110°F for extended periods of time. Extreme temperatures may cause paint to become unusable. See *Paint Storage Best Practices* Technical Bulletin at [dunnedwards.com](http://dunnedwards.com) for more information.

**CLEANUP:** Warm, soapy water

**DISPOSAL:** For information on local options to dispose of unwanted leftover paint, call Dunn-Edwards Customer Service at 1-888-DEPAINT or visit [www.dunnedwards.com](http://www.dunnedwards.com). **Do not mix with other products.**

**SAFETY DATA SHEET:** Available at [dunnedwards.com](http://dunnedwards.com)

## APPLICATION

**TEMPERATURE:** 50°F minimum, 90°F maximum (air, surface and material). Surface temperature must be at least 5°F above dew point.

**RELATIVE HUMIDITY:** 85% maximum

| AIRLESS SPRAY                | BRUSH           | ROLLER         |
|------------------------------|-----------------|----------------|
| <b>PRESSURE:</b><br>2000 psi | Polyester/Nylon | 1/4"– 3/8" nap |
| <b>TIP:</b> .015"–.017"      |                 |                |

## CONFORMS TO

ARB 2007 SCM & CALGreen 2016; CHPS Section 01350; LEED 2009 IEQ Credit 4.2; LEED v4 EQ Credit 2, MPI Approved Product #141, #153; FDA Guidelines for Resinous & Polymeric Coatings

## ASTM TEST METHODS

### ADHESION (to properly primed surfaces)

**METHOD:** ASTM-D3359

**RESULT:** Excellent (5B)

### CHEMICAL RESISTANCE

**METHOD:** ASTM-D1308

**RESULT:** Mineral Spirits = Pass  
Vegetable Oil = Pass  
Motor Oil (10W30) = Pass  
Methyl Alcohol = Pass  
Hydrochloric Acid (10%) = Pass  
Sulfuric Acid (50%) = Pass  
Phosphoric Acid (5%) = Pass  
Fantastik = Pass  
Sodium Hydroxide (25%) = Pass

## SCRUB RESISTANCE

**METHOD:** ASTM-D2486

**RESULT:** 500-600 cycles with Shim, Bristle Brush & Abrasive Scrub Medium

## STAIN RESISTANCE

**METHOD:** ASTM-D3023

**RESULT:** Pencil = Pass  
Lipstick = Pass  
Crayon = Pass  
Marker = Pass  
Pen = Pass  
Mustard = Pass  
Coffee = Pass  
Grape Juice = Pass  
Ragu = Pass

## SURFACE PREPARATION

All surfaces must be cured, clean, dry, and free from dirt, dust, rust, stains, grease, oil, mildew, wax, efflorescence, bond-breakers, and other contaminants. Remove all loose, peeling, or chalky paint by sanding, scraping, or other appropriate methods. Repair all cracks, holes, and other surface imperfections with a suitable patching material. Repaired surfaces should then be sanded smooth and dusted clean. Glossy surfaces should be dulled to provide a roughened surface for good adhesion.

### FERROUS METALS

Remove all oil and grease from surfaces per SSPC-SP1. Minimum surface preparation is Hand Tool Clean per SSPC-SP2. For better performance, use Commercial Blast Cleaning per SSPC-SP6. Primers are recommended for maximum performance.

### ALUMINUM

Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1. Apply appropriate bonding primer for maximum performance.

### GALVANIZED METAL

Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first clean per SSPC-SP1 and apply a test patch of the appropriate galvanized metal primer. Allow patch to dry at least one week before testing adhesion. If adhesion is poor, further cleaning or brush blasting per SSPC-SP7 may be necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned.

### CONCRETE & MASONRY

For surface preparation, refer to SSPC-SP13/NACE 6. Surfaces should be thoroughly cleaned and dry. Surface temperature must be at least 55°F before filling. If required for a smoother finish, use the recommended filler/surfacer. The filler/surfacer must be thoroughly dry before topcoating per manufacturer's recommendations. Weathered masonry and soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination and to get to a hard, firm surface. Apply appropriate primer/sealer to promote adhesion.

### DRYWALL

Fill cracks and holes with patching paste/spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust. Apply appropriate primer/sealer.

### WOOD

Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth. Apply appropriate primer/sealer.

### PREVIOUSLY PAINTED SURFACES

If substrates are in sound condition, clean the surface of all contaminants per SSPC-SP1. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test patch, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Apply appropriate primer/sealer to promote adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

## SPECIAL INSTRUCTIONS

- **CAUTION!** Scraping or sanding surfaces of older buildings (especially pre-1978) may release dust containing lead or asbestos. EXPOSURE TO LEAD OR ASBESTOS CAN BE VERY HAZARDOUS TO YOUR HEALTH. Wear a NIOSH-approved N95 particulate filter mask to avoid breathing dust. Use a HEPA vacuum for cleanup, and finish by water-washing all surfaces. For more information, see Dunn-Edwards brochure on "Surface Preparation Safety" or call U.S. EPA's lead hotline at 1-800-424-LEAD, or visit [www.epa.gov/lead](http://www.epa.gov/lead) or /asbestos, or contact your state or local Health Agency.
- This product can neither cause nor prevent or cure the growth of mold, mildew, or other forms of fungus. Excessive moisture and inadequate ventilation are the main conditions that promote their growth. Correct any such conditions before painting.
- This paint contains a preservative which inhibits the growth of mildew on surface of this paint film.
- Do not apply at air or surface temperatures below 50°F.

## PRIMERS

### DRYWALL

Textured: **VINYLASTIC® Premium (VNPR00)**  
Untextured: **VINYLASTIC® Premium (VNPR00)**  
Skim-coated: **VINYLASTIC® Plus (VNPL00)**

### MASONRY

Plaster: } **SUPER-LOC® Premium (SLPR00),**  
Stucco: } **EFF-STOP® Premium (ESPR00),**  
Tilt-up concrete: } **EFF-STOP® Select (ESSL00) or**  
Poured-in-place: } **FLEX-PRIME® Select (FPSL00)**  
Brick: }  
Concrete block: **Smooth BLOCFIL Premium (SBPR00) or**  
**Smooth BLOCFIL Select (SBSL00)**

Smooth trowel: **SUPER-LOC® Premium (SLPR00)**

### WOOD

Trim, sash: **SUPER-LOC® Premium (SLPR00) or**  
**ULTRA-GRIP® Premium (UGPR00)**

**SYNTHETIC WOOD**

Masonite: }  
Hardboard: } **SUPER-LOC® Premium (SLPR00) or**  
MDO siding: } **ULTRA-GRIP® Premium (UGPR00)**

**METAL**

Ferrous: **BLOC-RUST® Premium (BRPR00) or**  
**ENDURAPRIME™ Metal Primer (ENPR00)**

Non-ferrous: **ULTRASHIELD® Galvanized Metal Primer**  
**(ULGM00) or**  
**BLOC-RUST® Premium (BRPR00)**

Galvanized steel: **ULTRASHIELD® Galvanized Metal Primer**  
**(ULGM00) or**  
**\*ULTRA-GRIP® Premium (UGPR00)**

*\*for incidental use on galvanized*

**HEALTH & SAFETY: CAUTIONS!** INHALATION OF SPRAY MIST OR SANDING DUST MAY BE HARMFUL. Use only with adequate ventilation. Avoid breathing vapors, spray mist and sanding dust. Wear NIOSH-approved N95 particulate filter mask when spraying or sanding. Avoid contact with skin and eyes. Do not ingest. Close container after each use. **FIRST AID:** If swallowed, immediately give 1 or 2 glasses of water to drink – for emergency information, call 1-800-222-1222. If having difficulty breathing, move to fresh air. For eye contact, immediately flush with water for 15 minutes. For skin contact, wash thoroughly with soap and water.

**• KEEP OUT OF REACH OF CHILDREN •**

Ingredient (CAS #): Water (7732-18-5); Copolymer Resin (Proprietary); Titanium Dioxide (13463-67-7); Nepheline Syenite (37244-96-5); Ester Alcohol (25265-77-4).

**⚠ WARNING:** Cancer and Reproductive Harm – [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)