

# Perdure HTC

## High Temperature Polyurethane Coating

### DESCRIPTION

Perdure HTC is a single component, moisture cured polyurethane coating designed as a high temperature protective coating for interior and exterior metal surfaces including walls, roofs, and structural elements. It has excellent adhesion to sound, tightly adhered rusty steel and other metal surfaces, and properly prepared concrete surfaces. Perdure HTC undergoes a rapid molecular weight change as it polymerizes into a high molecular weight coating with excellent corrosion, abrasion and high temperature resistance. Perdure HTC can also be used a primer for other Duraamen's resinous coating systems. It can be used as primer applied in one or two coats as necessary to achieve a pinhole free finish when applying Macrylex (MMA Resin) systems over an existing epoxy coating.

### ADVANTAGES

- High temperature resistance, up to 400°F
- Excellent primer for all types of surfaces
- Primer for Macrylex (MMA) or vinyl ester coating over epoxy coatings
- Excellent 'wetting' properties over properly prepared steel surfaces
- Re-coatable in 1 to 2 hours
- Can be coated with any epoxy coatings.
- Cures down to 25°F on dry surfaces
- Corrosion resistant – passes 1200 hours in salt cabinet.

### IMPORTANT CONSIDERATIONS

- Do not apply over frost, wet/damp surfaces, or in high humid conditions.
- Clear formulation will yellow over time if used as a finish coat.
- Must be recoated with 24 hours.
- Seal partially used containers to prevent them from reacting with moisture in air.
- Must be tacky when the top is coated with Vinyl ester coatings to prevent it from resulting in poor adhesion.

### SURFACE PREPARATION

- Concrete: Shot blast or grind to achieve a CSP of 4 and above
- Steel: Sand blast to a SSPC-SP6 "commercial" blast finish. When blasting is not possible, remove all loose rust and mill scale by power wire brushing. A tightly adherent rusty surfaces is acceptable.
- Galvanized Steel:
  - New: rush blast per SSPC-SP7
  - Old, weathered or rusty: Remove all oil, grease, dirt, and other foreign matter. Surface should be clean, dry and free of contaminants. Remove all loose rust as outlines above under Steel surfaces.
- Previously Painted Surfaces: Remove all loose, peeling or blistered paint along with any other surface contaminants. Make sure the surface is sound and dry.

### INSTALLATION

Perdure HTC is applied with a paint roller or a sprayer. The roller covers should have a phenolic core. The sprayer should have a moisture/oil trap for incoming air. Flush fluid lines with an anhydrous (water free) solvent prior to spraying Perdure HTC. Flush the sprayer every 1 to 2 hours during use to keep the lines free of material build up.

Perdure HTC can be applied at temperatures between 25°F and 140°F. It cures to a tack-free finish in 1-2 hours and can be recoated between 2 and 24 hours @ 75°F with 50% relative humidity. It must be tacky when top coating with Vinyl Ester or results in poor adhesion.

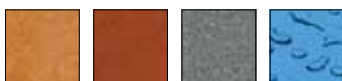
### COLOR SELECTION

Perdure HTC is available in Clear or Aluminum Colors Only.

### COVERAGE

Concrete Primer/barrier primer: 250-300ft<sup>2</sup>/gal. It yields in 2.9 to 3.4 mil DFT. Two coats are recommended.

Steel Primer/Finish: 300-400ft<sup>2</sup>/gal yields 2.2-3.4 mil DFT.



## TECHNICAL DATA

Working Life	1-2hr @ 75°F, 50% RH
Recoat Window	2-24hr @ 75°F, 50% RH
Service Temperature	up to 400°F
Application Temperature	25°F to 140°F
Mixing Ratio	None (Single Component)
Gloss	Low Sheen
Volume of Solids	54%
VOC (EPA Method 24)	356 grams per liter, compliant to high temp coating, VOC Rule 1113

## CLEAN UP

Clean Skin with soap and water. Tools and equipment should be cleaned with xylene or lacquer thinner. Consult SDS for safety and health precautions.

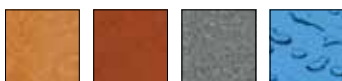
## CLEAN UP

Proper ventilation is necessary when coating indoors or in confined areas. Vapors and spray mist may cause eye/skin irritation as well as allergic reactions. Always wear protective clothing, goggles, and use NIOSH approved respirators. Combustible, keep away from all sources of ignition. For industrial use only. Keep out of reach of children.

Shelf Live: 6 Months minimum in unopened containers stored below 90°F.

## WARRANTY

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