



# Heresite HL-300

## Our 50 years of coating history speaks for itself.

In 1964, Heresite was the first company to apply coatings to aluminum-finned, copper-tubed heat exchangers. Heresite coatings became then, and remain a standard in the heat exchanger industrial coatings industry. We provide the highest quality protective coatings for air conditioning and refrigeration systems that operate in moderate to severely corrosive environments, including both coastal and/or industrial applications.

## A high-performance hydrophilic topcoat.

HL-300 is specifically formulated to be used as a topcoat over the Heresite P-413 to create a hydrophilic surface for heat transfer surfaces.

## HL-300 Specifications

**Salt Spray** ASTM B117: passes 2,500 hours

**QUV** ASTM D 4587: passes 2,500 hours

**Flowing water immersion:** passes 2,500 hours

**Water Contact Angle:** <30°

## Product Description

Heresite HL-300 is oven-cured hydrophilic topcoat

## Recommended Uses

Heresite HL-300 is a high-performance topcoat designed to be used with Heresite's P-413 coating. The HL-300 topcoat will change the surface of the P-413 to a hydrophilic surface.

## Packaging Information

One-gallon

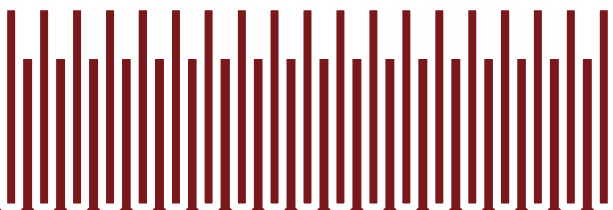
## Thinners and Cleanup

Product is provided at spray viscosity.

S-275 can be used for cleanup.

## Storage Conditions

Cleaner should not be stored longer than 3 months. Coating should be stored in a clean, dry environment at 50-75°F. Keep out of direct sunlight. Avoid excessive heat and keep from freezing.





**Physical Properties**

Solids by weight: Approximately 10%  
 Solids by volume: Approximately 7%  
 Pot life: NA  
 Induction Time: None  
 Shelf life: 3 months  
 Color: Clear

**VOC Content**

<0.1 lbs/gal as supplied

**Film Thickness**

<0.1 mil (2.5 microns)

**Coverage**

Theoretical coverage is 1,170 square feet per gallon at applied film thickness. Coverage rates are estimates and make no allowance for material loss. Actual rates will vary dependent on application methods, surfaces, etc.

**Surface Preparation**

Heresite HL-300 must be applied to clean, newly applied and fully cured P-413.

**Application**

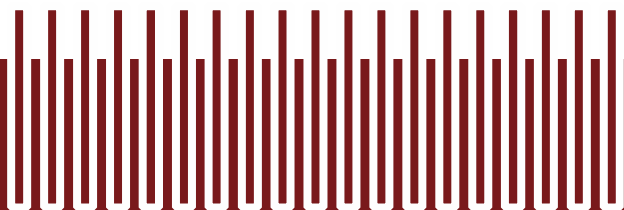
1. Heresite P-413 must be applied and fully cured prior to the application of the HL-300. See P-413 TDS for appropriate application and curing.
2. Consult SDS prior to use.
3. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.

4. Use standard production type spray equipment (conventional, HVLP, airless, etc.). A few starting recommendations can be found below:

<u>Guns</u>	<u>Fluid</u>	<u>Air</u>
DeVilbiss JGA-510	E	46MP
Binks #2100	67-SS	46-21MD-2 or 3
Binks #95	66-SS	66-SD

Graco Air Pro HVLP

5. Spray viscosity will be dependent on type of equipment being used.
6. Spray equipment: always flush spray equipment with solvent to clean prior to applying coating.
7. Air supply must be uncontaminated. Adjust air pressure to approximately 50 pounds at the gun and provide 15-20 pounds at pressure pot. Adjust spray gun by first opening liquid valve and then adjust air valve to give approximately an 8"-12" fan, holding gun perpendicular to the surface at a distance of 12".
8. Apply a mist bonding pass.
9. Allow to flash off for approximately a minute, but not long enough to allow film to completely dry.
10. Apply 3-4 crisscross multi-passes maintaining a wet appearing film.
11. Air dry a minimum of 60 minutes with ventilation prior to introducing heat.





### Bake Schedule

Starting at ambient temperature, ramp up to 110°C at a rate of no more than 4°C/min. Once 110°C (metal temperature) has been reached, hold for 60 minutes.

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

**CAUTION:** CONTAINS FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKERS MUST WEAR FRESH AIR LINE RESPIRATORS. PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRICAL EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMERS SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES.

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