



**AMERON**  
INTERNATIONAL

Performance Coatings & Finishes

# Amercoat® 895

## Temperature indicating coating

### Product Data/ Application Instructions

- Easy application
- Provides visual indication of hot spots on equipment, reactors, etc.

#### Typical Uses

This coating is designed to indicate potentially dangerous "hot spots" on the exterior of reactors and pressure vessels resulting from the breakdown of internal insulation. A perceptible change of color marks the area where local overheating has occurred. Color retention is excellent to the threshold temperature, above which, through irreversible reaction, progressive discoloration occurs at a rate determined by the time and temperature.

Blue:

up to 350°F (177°C)

At 400°F-450°F  
(204°-232°C)

At 500°F (260°C)

maintains deep blue color  
perceptible change to light blue-  
green in 36-60 hours  
changes to light color in a few  
hours, becoming white in 24 hours.

Green:

up to 500°F (260°C)

At 550°F (287°C)

At 600°F (316°C)

At 750°F (399°C)

maintains deep green color  
fading observed after 3 days  
perceptible change after 18 hours.  
perceptible change after 3 hours;  
very light green after 6 hours.

#### Systems Using Amercoat 895

First Coat

Amercoat 895

Dimetecote

Second Coat

Amercoat 895

Amercoat 895

#### Surface Preparation

In order to get the proper bond between coating and surface, the metal must be thoroughly cleaned of all scale, rust, old paint, dirt and any other foreign matter. Blast cleaning is recommended for best results. Surface must be clean and dry when coating is applied.

Apply directly to well cleaned bare steel or over specifically recommended prime coat. Blast cleaning is preferred to insure complete removal of rust, scale, and other foreign matter.

#### Physical Data

Finish	Low gloss	
Color	Blue and green	
Components	1	
Volume solids (calculated)	44%	
Dry film thickness per coat	1.0-1.5 mils (25-37.5microns)	
Coats	1	
Theoretical coverage	ft <sup>2</sup> /gal	m <sup>2</sup> /L
1 mil (25 microns)	706	17.4
VOC	lb/gal	g/L
unthinned	4.1	492
Temperature resistance	See Typical Uses	
Flash point	°F	°C
Amercoat 895	85	29
Amercoat 65	78	25
Amercoat 101	145	63
Amercoat 12	2	-17

#### Application Data

Applied over	Prepared or primed steel	
Surface preparation	See primer application instructions, or SSPC-SP 10 for self-primer	
Method	Airless or conventional spray, brush or roller	
Environmental conditions		
Temperature	°F	°C
air and surface	50-120	10-49
Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation		
Drying time ASTM D1640 @ 50% RH(hours)		
	°F/°C	
touch	75/24	
	2	
<i>Green - Air dries quickly to touch and resistant to moderate term weather exposure, but attains full hardness only after heat exposure to 300°F (148°C)</i>		
recoat (minimum)	24	
recoat (maximum, days)	30	
<b>Note:</b> If maximum recoat time is exceeded or if exposed to temperatures above 175° F (79°C), roughen surface before recoating.		
Thinner	Amercoat 65, 101	
Equipment cleaner	Amercoat 12 or thinner	

Formerly VyGuard 37-B-1/37-G-1

## Application Equipment

The following equipment is listed as a guide and suitable equipment from other manufacturers may be used.

Adjustments of pressures and change of tip size may be needed to obtain the proper spray characteristics.

**Airless spray** – Use of tips with .013" to .018" orifice is suggested, depending on available pressure and job conditions.

**Conventional spray** – Industrial spray equipment such as DeVilbiss MBC 510 spray gun, "E" fluid tip #704, #765 or #78 air cap. Binks #18 spray gun, 66 tip, 66 PE or 63 PB nozzle.

**Brush** – Natural bristle. Maintain a wet edge.

**Roller** – Industrial solvent-type. Level any air bubbles with a bristle brush.

## Application Procedure

Stir thoroughly before use and occasionally during application. After proper surface preparation, apply by brush or spray, reducing only as required by application conditions. Use Amercoat 101 for brush, or Amercoat 65 for spray. Any sagging or running indicates that the coating is being applied too heavy. Allow the applied coating to set a few hours before the temperature is raised. Two coats are recommended for best protection on exterior exposure.

Repair: Where coating has discolored in hot spots, after insulation repair, remove discolored coating by wire brushing or sanding, and touch-up with fresh paint. If touch-up is done at elevated temperature, paint must be thinned sufficiently for proper application.

## Limitation of Liability

Ameron's liability on any claim of any kind, including claims based upon Ameron's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or part thereof which give rise to the claim. **In no event shall Ameron be liable for consequential or incidental damages.**

## Shipping Data

Packaging units	1-gal	5-gal
Shipping weight (approx)	lb	kg
1-gal unit resin	10.8	4.9
5-gal unit resin	55.0	25.0

Shelf life when stored indoors at 40 to 100°F (4 to 38°C)  
1 year from shipment date

This product is photochemically reactive as defined by the South Coast Air Quality Management District's Rule 102 or equivalent regulations.

## Safety Precautions

Read material safety data sheet before use. Safety precautions must be strictly followed during storage, handling and use.

**CAUTION – Improper use and handling of this product can be hazardous to health and cause fire or explosion.**

**Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: implementation of proper ventilation, use of proper lamps, wearing of proper protective clothing and masks, tenting and proper separation of application areas. Consult your supervisor. Proper ventilation and protective measures must be provided during application and drying to keep spray mists and vapor concentrations within safe limits and to protect against toxic hazards. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined or enclosed spaces, such as tank interiors and buildings.**

**This product is to be used by those knowledgeable about proper application methods. Ameron makes no recommendation about the types of safety measures that may need to be adopted because these depend on application environment and space, of which Ameron is unaware and over which it has no control.**

**If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use the product.**

**Note:** Consult Code of Federal Regulations Title 29, Labor, parts 1910 and 1915 concerning occupational safety and health standards and regulations, as well as any other applicable federal, state and local regulations on safe practices in coating operations.

***This product is for industrial use only. Not for residential use.***

## Warranty

Ameron warrants its products to be free from defects in material and workmanship. Ameron's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at Ameron's option, to either replacement of products not conforming to this Warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to Ameron in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify Ameron of such nonconformance as required herein shall bar Buyer from recovery under this Warranty.

**Ameron makes no other warranties concerning the product. No other warranties, whether express, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall Ameron be liable for consequential or incidental damages.**

Any recommendation or suggestion relating to the use of the products made by Ameron, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.



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