



AMERON
INTERNATIONAL

Performance Coatings & Finishes

Amercoat® 894

Heat resisting silicone-acrylic coating

Product Data/ Application Instructions

- Heat resistant coating
- Good color stability at elevated temperatures up to 350° continuous, 450° intermittent.

Typical Uses

This product is designed for use on steel subject to elevated temperatures. Recommended use is two coats applied directly to the properly prepared steel. In services where the temperature exposure cycles between elevated and less than 200°F. (94°C), or where there may be extended intervals of ambient temperature exposure, superior performance and steel protection can be obtained through the use of a Dimetcote inorganic zinc rich primer.

Systems Using Amercoat 894

First Coat	Second Coat
Amercoat 894	Amercoat 894
Dimetcote	Amercoat 894

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 to SSPC-SP10 "Near White" (Swedish Std. SA2 ½) is recommended for best results. Surface must be clean and dry when paint is applied.

Physical Data

Finish	Medium high gloss	
Color	White, black	
Components	1	
Volume solids (calculated)	34% (average depending on color)	
Dry film thickness per coat	1.0-1.5 mils (25-37.5 microns)	
Coats	1	
Theoretical coverage	ft²/gal	m²/L
1 mil (25 microns)	545	13.3
VOC	lb/gal	g/L
unthinned	4.9	588
Temperature resistance	°F	°C
continuous	350	177
intermittent	450	232
Flash point (PMC)	°F	°C
894	89	32
Amercoat 65	81	27
Amercoat 101	145	63
Amercoat 12	2	-17

Application Data

Applied over	Prepared or primed steel
Surface preparation	Abrasive blast SSPC-SP 10
Method	Airless or conventional spray, brush or roller

Environmental conditions

Temperature	°F	°C
air and surface	40-120	5-49
Relative humidity	85% maximum	
Surface temperature must be at least 5°F (3°C) above dew point to prevent condensation		
Drying time ASTM D1640 @ 50% RH(hours)		
	°F/°C	
	75/24	
touch	15-30 minutes	
recoat (minimum)	2 hours by spray	
	16 hours by brush	

Note: Attains full hardness only after heat exposure over 300°F

Thinner	Amercoat 65, 101
Equipment cleaner	Amercoat 12 or thinner

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. Apply by brush or spray, reducing as required by application conditions. Use Amercoat 101 thinner for brush and Amercoat 65 thinner for spray. Any sagging or running indicates that the coating is being applied too heavy. Application film thickness in excess of 2 mils dry per coat may result in pinholes or blisters. Allow the applied coating to set a few hours before the temperature is raised. For best results, application is recommended when surface temperature is below 120°F. (49°C).

When used as a finish over Dimetacote primer, a mist coat/full coat application may be required to minimize bubbling.

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	53	24.1

Shelf life when stored indoors at 40 to 100°F (4 to 38°C)

1 year from shipment date

Numerical values are subject to normal manufacturing tolerances, color and testing variances. Allow for application losses and surface irregularities.

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

Safety Precautions

Read each component's material safety data sheet before use. Mixed material has hazards of each component. 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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