

# Amercoat<sup>®</sup> 90HS

### Epoxy-phenolic tank linings

## **Product Data**

- Low VOC
- Tank lining
- Economical potable water tank lining; requires only 2 coats
- $\bullet$  Withstands continuous immersion in water up to 140°F (60°C)
- Recommended for use under insulation up to 400°F (204°C)

#### **Typical Uses**

Amercoat 90HS provides excellent protection to prepared steel and concrete exposed to splash, spillage and fumes of corrosive chemical and weather environments. Amercoat 90HS is used as a tank lining for ship tanks, roadtankers, barges, railroad cars and storage tanks in the chemical and petrochemical industries.

Amercoat 90HS has excellent resistance to continuous and alternating service for a wide range of chemicals, solvents, caustic, crude and fuel oils, as well as, neutral, alkaline and nonoxidizing salt solutions in water. It may be cleaned between cargoes with hot cleaning, up to a butterworth temperature of  $176^{\circ}$ F (80°C).

#### **Chemical Resistance**

For a comprehensive listing of chemical resistance see the latest Amercoat 90HS Chemical Resistance List.

#### Qualifications

- 1. NSF Standard 61\* For use in drinking water (CLD 23); Amercoat 90HS
  - •Colors: white, ivory and RT-1805 blue
  - •2 4 coats to a maximum of 25 mils (625 microns) DFT is NSF qualified
  - Sequence of Coats: Any combination of listed colors
  - •Maximum Thinner: 12.5% Amercoat #65 by volume
  - •Recoat/Cure Time: 8 hours / 5 days
  - •Tanks 1000 gallons or greater
  - Pipes  $5^{1/2}$  inches in diameter or greater
  - Valves 5<sup>1/2</sup> inches in diameter or greater

\*Certain restrictions do apply.

#### 2. MIL-P-23236B(SH) Type IV



#### **Physical Data**

Finish Color\*\* Components Curing mechanism

Volume solids (calculated) Dry film thickness per coat Coats Total minimum DFT water tanks chemical tanks refined petroleum ships tanks under insulation suppression chambers factory-applied and baked lining Theoretical coverage 1 mil (25 microns) 4 mils (100 microns) VOC mixed mixed/thinned (1pt/gal)

Temperature resistance

	°F	°C
Immersion	140	60
Non-immersion	250	121
Under insulation	400	204
Flash point (SETA)	°F	°C
cure	83	28
resin	96	39
Amercoat 65	78	25
Amercoat 101	145	63
Amercoat 12	2	-17

Flat

 $64\% \pm 3\%$ 

2 or 3

ft²/gal

1027

257

lb/gal

2.7

3.3

2

White, ivory, RT-1805 blue

Solvent release and chemical

4-6 mils (100-150 microns)

8-10 mils (250 microns)

8-12 mils (300 microns)

8-10 mils (200 microns)

12 mils (300 microns)

12 mils (300 microns)

10 mils (250 microns)

8 mils (200 microns)

Prepared steel, concrete,

aluminum, galvanizing or

m²/L

25.2

6.3

g/L

323

395

reaction between components

#### **Application Data**

Applied over

	Dimetcote	0	
Surface preparation			
steel	SSPC-SP5	(Sa 3) or 10(S	$a 2^{1/2}$
concrete	ASTM D42	259 or 4260	
aluminum	Alodine <sup>®</sup> c	r light abrasi	ve blast
galvanizing	Galvapren	<sup>®</sup> or light abra	sive blast
Dimetcote	See specific Dimetcote		
Method	Airless or conventional sprav		
Mixing ratio (by volume)	4 parts resin to 1 part cure		
Pot life (hours)	°F		°F/°C
	90/30	70/21	50/10
	2	4	6
Environmental conditions			
Temperature	°F	°C	
air	50 to 100	10 to 38	
surface	50 to 120	10 to 49	

Surface temperatures must be at least  $5^\circ F$  (3°C) above dew point to prevent condensation.

\*\* Use pearl gray, white or ivory for chemical tank lining.

#### **Application Data Summary**

See Application Instructions for complete information on surface preparation, environmental conditions, application procedures and equipment. To obtain maximum performance, apply as recommended. Adhere to all safety precautions during storage, handling, application and drying periods.

#### **Surface Preparation**

Coating performance is, in general, proportional to the degree of surface preparation. All surfaces must be clean, dry, and free of all contamination, including salt deposits before applying coating.

#### **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.

## 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 knowhow 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.

#### **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.

Drying time (ASTM D1640) (hours)		°F/°C			
• •	100/38	90/32	70/21	50/10	
touch	1	$1^{1/2}$	3	6	
through	6	8	12	24	
recoat					
minimum	3	4	8	12	
maximum (days)	$3^{1/2}$	5	7	12	

#### Roughen surface if maximum recoat time is exceeded.

Curing time for immersion service\*\*\*

Steel sub	ostrate		Ambie	nt cure
Гетрега	ature	Heat cure <sup>+</sup>	$12 \text{ mils}/300 \mu$	$18 \text{ mils}/450 \mu$
°F	°C	hours	days	days
212	100	1	NA	NA
180	82	2	NA	NA
160	71	4	NA	NA
140	60	8	NA	NA
122	50	24	NA	NA
104	40	96	NA	NA
86	30	NA	4	6
70	21	NA	7	91/2
59	15	NA	10	13
50	10	NA	14	19

\*\*\* After application and during the above curing schedule tanks must be ventilated to prevent solvent entrapment.

<sup>+</sup> For maximum chemi	cal resistance	minimum cure	temperature is	104°F(40°C)
1 or maximum chomi	cui i coioiunice,	munum care	icmperature is	1011 (10 0).

Thinner	Amercoat 65 or 101
Equipment cleaner	Thinner or Amercoat 12

#### **Shipping Data**

Packaging units	1 gal	5 gal
cure	0.20 gal in 1-qt can	1 gal in 1-gal can
resin	0.80 gal in 1-gal can	4 gal in 5-gal can
Shipping weight (approx)	lb	kg
1-gal unit		-
cure	2.0	0.9
resin	11.3	5.1
5-gal unit		
cure	8.7	3.9
resin	55.0	25.0

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

Numerical values are subject to normal manufacturing tolerances, color and testing variances. Allow for application losses and surface irregularities. See application instructions for complete information and safety precautions. The mixed product is photochemically reactive as defined by South Coast Air Quality Management District's Rule 102 or equivalent regulations.



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