



Performance Coatings & Finishes

# Amercoat® 78HB

*Amine-cured coal-tar epoxy*

## Product Data

- Protection in only one coat, eliminating intercoat adhesion problems of two-coat coal-tar epoxies
- One-coat application for significantly reduced labor costs
- Superior application by airless and conventional spray
- For tank lining, immersion or nonimmersion service
- Suitable for waste treatment plant service

Amercoat 78HB displays exceptional application versatility. Easily applied in one-coat thicknesses of 16 mils (400 microns) or more. Alternatively, two coats at 5 - 8 mils (125 - 200 microns) each may be applied if required by specification. These features, combined with its high solids content and broad spectrum of water and chemical resistance, provide in Amercoat 78HB a durable, high performance, economical coating suitable for use over both steel and concrete.

## Typical Uses

Marine structures, piling, bilges, ballast tanks, crude oil cargo/ballast tanks, ship bottoms; pipe coating and lining; industrial coating in power plants, oil production and refining plants, wastewater treatment plants. Lining for intermittent or continuous immersion in crude oil, salt solutions, and fresh or brackish water or seawater.

## Systems Using Amercoat 78HB

Amercoat 78HB normally does not require a primer or any additional topcoats. In the event a holding primer is required, Amercoat 370 may be used.

Dimetcote® can be used as a primer for Amercoat 78HB when the cathodic protection provided by an inorganic zinc is required. For immersion service, Amercoat 370 is recommended as a tiecoat between Dimetcote and Amercoat 78HB.

### Systems using Amercoat 78HB

System	Immersion	Nonimmersion
		Splash/Spillage
Amercoat 78HB	Yes	Yes
Amercoat 370/Amercoat 78HB	Yes	Yes
Dimetcote 9 Series/Amercoat 78HB	No	Yes
Dimetcote 9 Series/Amercoat 370/Amercoat 78HB	Yes	Yes

## Application Data Summary

For complete information on surface preparation, environmental conditions, application procedures, drying times, equipment, and safety precautions refer to detailed application instructions. This product should be applied as recommended to obtain the maximum performance for which the material is formulated.

## Physical Data

Finish	Flat	
Color	Black, red	
Components	2	
Curing mechanism	Solvent release and chemical reaction between components	
Volume solids (ASTM D2697 modified)	78% ± 3%	
Dry film thickness per coat	16 mils (400 microns)	
Coats	1	
Theoretical coverage	ft <sup>2</sup> /gal	m <sup>2</sup> /L
	1 mil (25 microns)	1250 30.0
16 mils (400 microns)	78	1.9
VOC	lb/gal	g/L
	mixed	1.9 228
mixed/thinned (1 pt/gal)	2.5	300
Temperature resistance	°F	°C
	Dry	300 150
Neutral salt solutions	160	71
Fresh water	140	60
Flash point (SETA)	°F	°C
	cure	142 61
resin	127	53
Amercoat 12	2	-17
Amercoat 65	78	25
Amercoat 101	145	63

## Application Data

Applied over	Prepared or primed steel or concrete		
Surface preparation	Abrasive blast or acid etch		
Primer	Dimetcote 9 Series, Amercoat 370		
Method	Airless or conventional spray		
Mixing ratio (by volume)	1 part cure to 19 parts resin		
Pot life and drying time dependent on temperature. Environmental conditions are critical for this class of coating. See application instructions.			
Pot life (hours)		°F/°C	
	90/32	70/21	50/10
	2	4	8
Environmental conditions			
Temperature	°F		°C
air	40 to 122		4 to 50
surface	40 to 120		4 to 49
Steel surface temperature must be at least 5°F (3°C) above dew point to prevent condensation.			

## Curing

Can be exposed to most atmospheric conditions as soon as sufficiently hard to withstand the handling required.

Can be immersed in water where abrasion is not critical, such as in ships' ballast tanks or bilges, after 72 hours at 70°F (21°C).

Full cure, where maximum chemical or abrasion resistance is required, takes 10 days at 70°F (21°C).

*Note: Drying and curing times are dependent on temperature and thickness of 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 professional 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.

Drying and cure times (ASTM D1640)		°F/°C	
	90/32	70/21	50/10
touch (hours)	3 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>2</sub>
through (hours)	10	15 <sup>1</sup> / <sub>2</sub>	48
recoat (maximum, hours)	12	24	72
cure before service (days)	4	10	28
water immersion (minimum, days)		3	
chemical resistance (minimum, days)		10	

Thinner	Amercoat 65 or 101
Equipment cleaner	Thinner or Amercoat 12

## Shipping Data

Packaging units	1 gal	5 gal
cure	1/2-pt can	1-qt can
resin	1-gal can	5-gal can
Shipping weight (approx)	lb	kg
1-gal unit		
cure	.5	.2
resin	12.6	5.7
5-gal unit		
cure	2.4	1.1
resin	62.5	28.4

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.

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

## 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.**



Ameron U.S.A. • 13010 Morris Rd, Suite 400, Alpharetta, GA 30004 • (678) 393-0653  
Ameron B.V. • J. F. Kennedylaan 7, 4191 MZ Geldermalsen, The Netherlands • (31) 345-587-587