AMERON
INTERNATIONAL
Performance Coatings & Finishes

Amercoat® 370

Fast-dry multi-purpose epoxy

Product Data

- High performance, corrosion resistance
- Fast drying, fast curing epoxy composition
- Application over wide range of surface temperatures from 20°F (-7°C) to 120°F (60°C)
- Self-priming, high-build coating
- Primer for wide range of topcoats
- Excellent shop primer for corrosion resistance
- Compatible with inorganic zinc silicate primers
- No lead pigments added
- VOC compliant
- Suitable for immersion in fresh and salt water
- Compatible with compromised surface preparation

Amercoat 370 forms an excellent corrosion barrier and is suitable for most industrial and marine new construction, repair, and field maintenance applications.

The fast curing properties of Amercoat 370 make it especially beneficial as a shop-applied coating where fast-drying and handling of coated parts are required.

Amercoat 370 is user-friendly and can be applied by a variety of spray application methods.

Typical Uses

Tank exteriors, structural steel, and piping in chemical plants, refineries, pulp and paper mills, offshore platforms, ship hulls, ballast tank service, anticorrosive under antifoulings and other structures exposed to severe weathering or salt spray.

Typical Properties

Physical

Abrasion (ASTM D4060) 1 kg load/1000 cycles CS-17 wheel	250 mg weight loss
Adhesion, Elcometer (ASTM D4541)	>1000 psi

Performance

Salt spray – 1 coat @ 6 mils 3000 hours exposure	
face corrosion (ASTM B117)	None
face blistering (ASTM B117)	None
Humidity (condensation) (ASTM D4585) 3000 hours exposure	
face corrosion	None
Steam cleanable	Yes
Chemical resistance – Condition after 1 year immersion	
salt water	Excellent
fresh water	Excellent

NSF

Qualifications

1. NSF Standard 61* - For use in drinking (CLD 23);
   Amercoat 370
   - Colors: White, Oxide Red, and Light buff
   - Number of Coats: 4
   - Maximum Field Use Dry Film Thickness (in mils) : 24
   - Maximum Thinner: 12.5% Amercoat #65 Thinner
   - Recoat/Cure Time: 0.5 hours / 7 days
   - Tanks 10,000 gallons or greater
   - Valves 4 inches diameter or greater

   **Certain restrictions do apply*

Physical Data

Finish	Flat	
Color	Pearl gray, light buff, white, oxide red	
Components	2	
Curing mechanism	Solvent release and chemical reaction between components	
Volume solids (calculated)	63% ± 3%	
Dry film thickness per coat	4-6 mils (100 - 150 microns)	
Coats	1 or 2	
Coverage	ft^2/gal	m^2/L
1 mil (25 microns)	1011	24.9
5 mils (125 microns)	202	5
VOC	lb/gal	g/L
mixed	2.5	300
mixed/thinned (½ pt/gal)	2.8	335
mixed/thinned (1pt/gal)	3.0	359
Temperature limit	°F	°C
continuous (dry)	200	93
intermittent (dry)	250	121
Flash point (SETA)	°F	°C
cure	82	28
resin	82	28
Amercoat 927	60	16
Amercoat 12	2	-17
Amercoat 101	145	63

Application Data

Applied over	Primed or prepared steel
Surface preparation	
new steel	SSP-SP6
primed steel	See specific primer
previously painted or pitted steel	SSPC-SP10
Primer	Dimetcote®
Method	Airless or conventional spray
Mixing ratio (by volume)	4 parts resin to 1 part cure

Application Data Continued

Environmental conditions

Temperature	°F	°C
air and surface	20 to 120	-7 to 49
material (minimum)	40	4

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

Thinner	
below 60°F	Amercoat 927
over Dimetcote or above 60°F	Amercoat 101
Equipment cleaner	Thinner or Amercoat 12

Amercoat 370 Chemical Resistance Guide

Environment	Splash and Spillage	Fumes and Weather
Acidic	F	G
Alkaline	E	E
Solvents	E	E
Salt solutions		
Acidic	G	VG
Neutral	E	E
Alkaline	E	E
Water	E	E

F-Fair G-Good E-Excellent VG-Very Good

This chart shows typical resistance of Amercoat 370. Contact your Ameron representative for your specific requirements.

Systems Using Amercoat 370

1st Coat	2nd Coat	3rd Coat
Amercoat 370	–	–
Amercoat 370	Amershield™	–
Amercoat 370	450HS	–
Dimetcote 21-9, 21-5	370	Amershield, 450HS
Amercoat 68HS	370	Amershield, 450HS, 3203
Amercoat 370	370	698HS, 70ESP, 635, 279, 275E

Confirm compliance with VOC regulations before using coating systems. For immersion service, apply 2 coats at a minimum of 8 mils total DFT.

Over Dimetcote or Amercoat 68HS primer, a mist coat and thinning with Amercoat 101 may be required to prevent application bubbling.

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.

Safety Precautions

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

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.

Pot Life and Dry Times

Temperature (°F/°C)	Pot-Life (Hours)	Touch Dry (Min.)	Through Dry (Hours)	Recoat (Hours)
20/-7	—	90	20	2½
32/0	—	60	9	2
40/4	7	45	7	2
50/10	6	30	4½	1½
60/16	5	22	2¾	1
70/21	4	15	1⅓	½
80/27	3	12	1¼	½
90/32	2	10	1	⅓

Topcoat or recoat time (days) (maximum)

	°F/°C			
	90/32	70/21	50/10	20/-7
450HS, Amershield™	14	30	45	60

Amercoat 370	
non-immersion	6 months – Clean surface required *(clean and roughen if exceeded)*
immersion 698HS, 70ESP, 635, 279, 275E	1 month – Clean surface *(clean and roughen if exceeded)* Apply while 370 is tacky, soft to fingernail*

* *Failure to apply antifoulings while coating is still tacky or soft to fingernail may result in poor adhesion and eventual delamination.*

If maximum topcoat time is exceeded, either clean and roughen the Amercoat 370 surface or clean and apply a tack coat of Amercoat 370 before topcoating with Amercoat 450HS, Amershield or antifouling.

Time before service @ 8 mils (hours)

Amercoat 370	°F/°C 90/32	70/21	50/10	32/0	20/-7
non-immersion**	6	12	24	96	120
immersion	12	24	48	168	NR

NR=Not recommended

*****Cure to full physical properties.***

Shipping Data

Packaging units	1 gal	5 gal
cure	0.2 gal in 1-qt can	1 gal in 1-gal can
resin	0.8 gal in 1-gal can	4 gal in 5-gal can

Shipping weight (approx)	lb	kg
1-gal unit		
cure	1.9	0.9
resin	14.2	6.5
5-gal can		
cure	8.6	3.9
resin	70.4	32

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, colors 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.

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.**

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