



Amercoat 385



Multi-purpose epoxy

(385 Series)

Product Data/ Application Instructions

- Excellent durability in both marine and industrial environments
- Compatible over inorganic zincs
- Outstanding chemical and weather resistance
- Suitable for immersion service
- Self-priming, economical, long-term protection
- Adheres to a variety of substrates such as steel, aluminium, stainless steel, concrete and previously coated surfaces
- Wide film build range
- Also available in MIO
- Also available as rust inhibitive pigmented version (Amercoat 385PA)

Amercoat 385 is a high build polyamide epoxy with high solids content designed for industrial and marine use. It adheres strongly to bare steel, primed steel and inorganic zinc silicate coatings on new construction, repairs and field maintenance projects. Amercoat 385 provides an excellent barrier to corrosion; its inhibitive pigment version (385PA) affords corrosion inhibition at damage areas. Amercoat 385 can be applied by a variety of spray methods to produce a smooth fast-drying high build film. Amercoat 385 may be overcoated with itself in non-immersion conditions for an unlimited period. Antifoulings must be applied to Amercoat 385 while the film is still soft to the fingernail.

Typical uses

MARINE- Decks, hulls, superstructures and ballast tanks of ships, barges and workboats.

INDUSTRIAL – Tank exteriors, structural steel pipes in chemical plants, refineries, pulp and paper mills and waste water treatment plants. Offshore platforms, jetties and other structures exposed to severe weathering, water, salt spray, immersion or aggressive chemical environments.

Amercoat 385 is an alternative for traditional coaltar epoxies and is suitable for immersion in both salt and fresh water. It is specifically suitable as marine ballast water tanklining.

Amercoat 385 can be topcoated with amongst others PSX 700, Amercoat 440 and Amercoat 450S.

NOTE: For immersion service use only the standard colours oxide red, RAL 7036 or RAL 1013, other colours available on request in special occasions.

Physical data

Finish.....	flat			
Colour				
Amercoat 385	White, Oxide Red, RAL 1013, RAL 7035, RAL 7035MIO, RAL 7036, Black			
Amercoat 385PA.....	Oxide red, Buff			
Components 385 or 385PA....	2			
Mixing ratio (by volume)				
Resin.....	1 part			
Cure	1 part			
Curing mechanism	solvent release and chemical reaction between components			
Volume solids 385 or 385PA..	68% (ISO 3233)*			
VOC.....	16% by weight			
	225 g/l		2.3 lb/gal	
Dry film thickness 385 or 385PA	100 – 200 µm per coat		4 – 8 mil per coat	
Number of coats	1 or 2**			
Theoretical coverage				
At 100 microns/4 mil dft	6.8 m ² /l		265 ft ² /gal	
At 200 microns/8 mil dft	3.4 m ² /l		133 ft ² /gal	
Temperature resistance	Dry		Wet	
	°C	°F	°C	°F
Continuous.....	93	200	60	140
Intermittent.....	120	250	79	175
Flashpoints	°C		°F	
Cure	43		109	
Resin.....	25		77	
Mixed	25		77	
Amercoat 9HF.....	26		79	
Amercoat 65	24		75	
Amercoat 12	24		75	
Thinners	Amercoat 9HF or Amercoat 65			
Cleaner.....	Amercoat 12			

* Volume solids is measured in accordance with ISO 3233. Slight variations ±3% may occur due to colour and testing variances.

** For immersion service, apply 2 coats of Amercoat 385 at a minimum of 300µm total dry film thickness



Amercoat 385

Application Procedure

Amercoat 385 is packaged in the proper mixing proportions of resin and cure.

Resin 10 L (2.6 gal) in 20 L can

Cure 10 L (2.6 gal) in 13 L can

Thinner: Amercoat 9HF or Amercoat 65

Cleaner: Amercoat 12

1. Flush equipment with Amercoat 12 before use.
2. Stir resin (in the larger container) to an even consistency with a power mixer.
3. Add cure to resin solution and continue stirring for 5 minutes.
NOTE: Since the potlife is limited and shortened by high temperatures, do not mix more material than will be used in 3 hours at 20°C.
4. Thin only if necessary for workability, add up to 10% by volume of thinner.
5. Apply a wet coat in even, parallel passes. Overlap each pass 50% to avoid bare areas, pinholes or holidays. When applying directly over inorganic zincs at full thickness, bubbling may occur. A test patch is recommended and if bubbling occurs, apply a "mist coat". Consult your Ameron representative for further information.
6. Double coat all welds, rough spots, sharp edges and corners, rivets, bolts, etc.
7. Application at 220 µm wet film thickness will normally provide 150 µm dry film.
8. Check thickness of dry coating with a non-destructive dry film thickness gauge, such as Mikrotest or Elcometer. If less than specified thickness, apply additional material as needed.
9. Small damaged or bare areas and random pinholes or holidays can be touched up by brush. Repair larger areas by spray.
10. In confined areas ventilate with clean air during application and drying until all solvents are removed. Temperature and humidity of ventilating air must be such that moisture condensation will not form on surface.
For conventional spray, use adequate air pressure and volume to ensure proper atomisation.
Normal recommended dry film thickness is 100 to 200 µm. However, if greater thickness is applied in local areas because of overlapping, no runs or sags will normally occur at a dry film thickness up to 250 µm. Total dry film thickness must not exceed 400 µm.
11. Clean all equipment with Amercoat 12 immediately after use or at least after each working day or shift. When left in spray equipment, Amercoat 385 will cure and cause clogging.

Shipping Data

Packaging

Resin 10 L (2.6 gal) in 20 L can

Cure 10 L (2.6 gal) in 13 L can

Shipping weight

Resin kg 36

Cure kg 33

Shelf life

Resin and cure..... 1 year from shipment date when stored indoors in unopened, original containers at 5 to 40°C (41 to 104°F)

Amercoat 385



Caution

This product is flammable. Keep away from heat and open flame. Keep container closed. Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to the health:

1. circulate adequate fresh air continuously during application and drying;
2. use fresh air masks and explosion proof equipment;
3. prohibit all flames, sparks, welding and smoking.

Do not empty into drains. Take precautionary measures against static discharges. For specific information on hazardous ingredients, required ventilation, possible consequences of contact and safety measures see Safety Data Sheet.

Safety

Since improper use and handling can be hazardous to health and cause of fire or explosion, safety precautions included with application instructions must be observed during all storage, handling, use and drying periods. To avoid any confusion that may arise through translation into other languages, the English version of the Product Data/Application Instructions will be the governing literature and must be referred to in case of deviations with product literature in other languages.

Warranty

Ameron warrants its products to be free from defects in material and workmanship. Ameron's sole obligations and Buyer's exclusive remedy in connection with the products shall be limited, at Ameron's option, to either replacement of products not conforming this warranty or credit to Buyer's account in the invoiced amount of the non-confirming 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 non-conformance 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 particular purpose, shall apply. In no event shall Ameron be liable for consequential or incidental damages.

Any recommendations or suggestion relating to the use of the products made by Ameron, whether in its technical literature, or response to specific enquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyer's having requisite skill and know-how in the industry, and therefore it is 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, as 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.

Condition of Sale

All our transactions are subject to our Terms and Conditions of Sale.