



# Amercoat 68E



## High-Zinc Content Epoxy Primer

### Product Data/ Application Instructions

- Contains minimum 85% zinc content by weight in the dry film
- Combines epoxy's toughness with zinc's superior protection
- Outstanding resistance to severe weathering
- Superior performance in industrial and marine environments
- Easily applied by airless or conventional spray

#### Typical Uses

In combination with suitable topcoat systems, Amercoat 68E can be used for the following applications:

**INDUSTRIAL** - structural steel, machinery pipes, and tank exteriors in paper mills oil refineries, power plants, chemical process and waste treatment plants.  
**MARINE** - Decks, hulls, and superstructures of ships, barges and workboats. On piers, offshore platforms and related structures.

#### Outstanding Characteristics

Amercoat 68E is a two component zinc rich epoxy primer with high metallic zinc content. The zinc content provides cathodic protection and high resistance to undercutting even if the film is damaged. Applied as part of a coating system Amercoat 68E provides superior performance in a wide range of highly corrosive environments. With suitable topcoats it withstands splash or spillage of water, solvent, chemicals and petroleum products.

#### Qualifications

Complies with the compositional requirements for SSPC Paint 20, ISO 12944 part 5, BS 4652 and BS5493.

Amercoat 68E also complies with compositional requirements from major oil companies such as Total/Elf/Fina, ADMA/OPCO and Aramco APCS 1C & 1F and with Deutschebahn specification DB-TL 918300 Blatt 87.

### Physical Data

Finish .....	matt	
Colour .....	reddish grey	
Components .....	2	
Mixing ratio (by volume)		
resin .....	4 parts	
cure .....	1 part	
Curing mechanism .....	solvent release and reaction between components	
Volume solids .....	57% (ISO 3233)*	
VOC .....	13% by weight/363 g/l	
Dry film thickness .....	50 - 75 µm (2-3 mils) per coat	
Number of coats .....	1	
Calculated coverage .....	7.6 m <sup>2</sup> /l (at 75 µm) 309,6 ft <sup>2</sup> /gal (at 3 mils)	
Allow for application losses, surface irregularities, etc.		
Specific gravity .....	2.8 kg/l (mixed product)	
Temperature resistance .....	205°C (400°F) dry heat	
Flash points (Closed Cup).....	°C	°F
resin .....	23	73
cure .....	18	64
Amercoat 9HF .....	26	79
Thinner/cleaner .....	Amercoat 9HF	

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



## Recommended systems comply to ISO 12944

ISO 12944	First coat	Intermediate coating options	Finish coat options
C5 m/i high	Amercoat 68E	Amercoat 370 Amercoat 385	Amercoat 450 series Amercoat 229
C5 m/i high	Amercoat 68E	Amerlock series Amercoat 383H	Amercoat 450 series
C5 m/i high	Amercoat 68E		Amershield* PSX 700*
Up to 200°C	Amercoat 68E		Amercoat 891

\* An additional stripe coat on all edges and difficult to reach areas is essential to reach the overall performance. Check with your Ameron representative for detailed recommendations.

## Repair

Amercoat 68E may be used to repair itself or inorganic zinc coatings.

## Surface Preparation

**STEEL** – Blast in accordance with ISO 8501-1 Sa 2½ or SSPC-SP6. Blast to achieve a 35 to 65 µm (1,5 - 2,5 mils) profile as determined with Testex Press-O-Film tape or similar instrument. Remove abrasive residues and dust from surface.

Apply Amercoat 68E as soon as possible after surface preparation to prevent any contamination. Do not leave blasted steel uncoated overnight. In case of contamination, remove contaminants. Spot blast steel if needed.

## Application Equipment

The following equipment is listed as a guide and suitable equipment from other manufacturers may be used. Adjustments of pressure and change of tip size may be needed to obtain the proper spray characteristics.

**AIRLESS SPRAY** - Standard airless spray equipment, such as Graco, DeVilbiss, Nordson-Bede, Spee-Flo or others having a 28:1 or higher pump ratio and a fluid tip with a 0.43 to 0.58 mm (0.017 to 0.023 inch) orifice.

**CONVENTIONAL SPRAY** - Industrial equipment such as DeVilbiss MBC or JGA gun with 765 air cap or Binks No. 18 or 62 spray gun. Separate air and fluid pressure regulators, mechanical pot agitator and a moisture and oil trap in the main air supply line are recommended.

**BRUSH/ROLLER** – suitable for small areas only, such as touch-up, repairs and stripe coating.

**MIXER** - Use power mixer powered by an air motor or an explosion proof electric motor.

## Application Data

Substrate ..... abrasive blasted steel

Surface preparation..... Abrasive blasting

Application method..... airless or conventional spray, brush or roller

### Mixing ratio (by volume)

resin ..... 4 parts  
cure ..... 1 part

### Environmental conditions (during application and drying)

Air temperature ..... 5-50°C      41-122 °F  
Surface temperature ..... 5-60C      41-140°F

*Surface temperature must be at least 3°C (5°F) above dew point to prevent moisture condensation on the surface.*

*Never apply coatings under adverse environmental conditions.*

*Ensure good ventilation when applied in confined areas to assist evaporation and eliminations of solvents.*

Potlife °C/°F (hours) .....	5/41	10/50	20/68	40/104
	16	12	8	2

### Drying times °C/°F (at 75µm/3mils)

	5/41	10/50	20/68	40/104
Dry through (hours).....	16	8	4	1.5
Topcoat time .....	16	8	4	1.5

*Drying times are dependent on air and steel temperature, applied film thickness, ventilation and other environmental conditions.*

*Times are proportionally shorter at higher temperatures and longer at lower temperatures..*

**Overcoating:** For final use Amercoat 68E is normally overcoated. See „typical systems“ above. Before overcoating ensure that the surface is clean and free from zinc salts and other contamination.

Maximum overcoating time will depend upon the age and conditions to which the coating has been exposed. A degree of surface preparation will be required. Consult your Ameron representative for recommendation.



# Amercoat 68E

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## Application Procedure

Amercoat 68E is packaged in the proper mixing proportions of resin and cure.

Resin: 8 l (2,1 gal) in 10 l can  
Cure: 2 l (0,53 gal) in 2½ l can

1. Flush equipment with Amercoat 9HF before use.
2. Stir resin (in the larger container) to an even consistency with a power mixer.
3. Add cure to resin and continue stirring for 5 minutes. Strain material through 250 µm (60 mesh) screen to prevent possible clogging of equipment. NOTE: Since the potlife is limited and shortened by high temperatures, do not mix more material than will be used in 8 hours at 20°C (68°F).
4. Thinning is normally not required for airless spray. For conventional spray, thin only as needed for workability, with up to 10 vol.% of Amercoat 9HF.
5. Stir during application to maintain uniformity of material. Apply a wet coat even, parallel passes. Overlap each pass 50% to avoid bare areas, pinholes or holidays.
6. Double coat all welds, rough spots, sharp edges and corners, rivets, bolts, etc.
7. Application at 132 µm (5,3 mils) wet film thickness will normally provide 75 µm (3 mils) dry film. Avoid over application which can result in reduced cohesive strength when overcoated.
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.
11. Clean all equipment with Amercoat 9HF immediately after use or at least at the end of each working day or shift. When left in spray equipment, Amercoat 68E will cure and cause clogging.

## Shipping Data

Packaging  
resin ..... 8 l (2,1 gal) in 10 l can  
cure ..... 2 l (0,53 gal) in 2½ l can

Shipping weight  
resin ..... approx. 28 kg  
cure ..... approx. 2.5 kg

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

## 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 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 descretion 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.