



Amercoat 68G Zinc-Rich Epoxy Primer

Product Data/ Application Instructions

- High metallic zinc content 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 68G 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 68G is a two component metallic zinc rich epoxy primer. The zinc content gives a cathodic protection if film is damaged. Applied as part of a coating system Amercoat 68G provides superior performance in a wide range of highly corrosive environments. With suitable topcoats it withstands splash or spillage of water, solvents, chemicals and petroleum products.

Qualifications

Complies with the compositional requirements for SSPC Paint 20, ISO 12944 part 5 and Aramco APCS 1C & 1F.

Physical Data

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	Finish	matt	
	Colour	reddish grey	
	Components	2	
	Mixing ratio (by volume) resin cure	4 parts 1 part	
	Curing mechanism	solvent release between compo	
	Volume solids	66% (ISO 3233)*	
	VOC** EC SED 1999/13/EC	106g/kg (299 g	/l)
Dry film thickness		75 µm (3 mils) per coat	
	Number of coats	1	
Calculated coverage		8.8 m²/l (at 75 μm)	
Allow for application losses, surface irregularities, etc.			
	Specific gravity	2.8 kg/l (mixed product)	
	Temperature resistance	150°C dry hea	t
	Flash points (Closed Cup) resin cure Thinner 91-92	°C 31 31 26	°F 88 88 79
	Thinner/alconor	Thinnor 01 02	

Thinner/cleaner Thinner 91-92

* Volume solids is measured in accordance with ISO 3233. Slight variations \pm 3% may occur.

** VOC figures are quoted according to both the EC directive 1999/13/EC which are theoretically calculated figures and the UK PG6/23(92) Appendix 3 which are practically determined figures.

Recommended systems compliant to ISO 12944

	First coat	Intermediate coating options	Finish coat options
ISO 12944 C5 m/i high	Amercoat 68G	Amercoat 385	Amercoat 450 series
ISO 12944 C5 m/i high	Amercoat 68G	Amerlock series	Amercoat 450 series
ISO 12944 C5 m/i high	Amercoat 68G	-	Amershield* PSX 700*

and ISO 20340 performance standards

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

Repair

Amercoat 68G 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 μ m (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 68G 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, chemical treatment or mechanical cleaning, depending on conditions.	
Application method	airless or conventional spray, brush or roller	
Mixing ratio (by volume) resin cure	4 parts 1 part	
Thinner/cleaner	Thinner 91-92	
Environmental conditions (during appliation and drying)		

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Surface temperature must be at least 3°C (5°F) above dew point to prevent moisture condensation on the surface. Never apply coating 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 16	10/50 8	20/68 4	40/104 1
Drying times °C/°F (at 75µm/3 mils)				
	5/41	10/50	20/68	40/104
dry through (hours)	12	6	3	1
minimum overcoat time (hrs)	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 68G 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 PPG representative for recommendation.

Amercoat 68G

Application Procedure

Amercoat 68G is packaged in the proper mixing
proportions of resin and cure.Resin: $8 \mid (2,1 \text{ gal}) \text{ in } 10 \mid \text{can}$ Cure: $2 \mid (0,53 \text{ gal}) \text{ in } 2\frac{1}{2} \mid \text{can}$

- 1. Flush equipment with Thinner 91-92 before use.
- 2. Stir resin (in the larger container) to an even consistency with a power mixer.
- 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 Thinner 91-92.
- 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.
- Application at 120 μm (4,8 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.
- 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 Thinner 91-92 immediately after use or at least at the end of each working day or shift. When left in spray equipment, Amercoat 68G will cure and cause clogging.

Shipping Data

Packaging

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

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Safety

Since improper use and handling can be hazardous to health and cause of fire or explosion, safety precautions included with Product Data/Application Instruction and Material Safety Data Sheet must be observed during all storage, handling, use and drying periods.

Warranty

PPG warrants its products to be free from defects in material and workmanship. PPG's sole obligations and Buyer's exclusive remedy in connection with the products shall be limited, at PPG's option, to either replacement of products not conforming this warranty or credit to Buyer's account in the invoiced amount of the non-conforming products. Any claim under this warranty must be made by Buyer to PPG 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 PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

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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.

Condition of Sale

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

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