



Amercoat 68

Zinc-Rich Epoxy Primer

Amercoat 68HS is used in USA

Product Data/ Application Instructions

- **An experience-proven zinc-rich epoxy**
- **Combines epoxy's toughness with zinc's superior protection**
- **Outstanding resistance to water, weather and abrasion**
- **Superior performance on marine hulls, decks and superstructures**
- **Excellent adhesion to inorganic zincs**
- **Easily applied by airless or conventional spray**

Typical Uses

(with suitable topcoats)

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. Piers, offshore platforms and related structures.

Outstanding Characteristics

Amercoat 68 is a polyamide cured zinc rich epoxy primer. The zinc content gives a cathodic protection if film is damaged. Apply a single coat of Amercoat 68 primer at 75 µm dry film thickness, overcoated with a recommended epoxy topcoat or topcoat system. With the proper topcoats, withstands splash or spillage of water, solvents, chemicals and petroleum products. For specific recommendations contact your PPG representative.

Approvals and Certificats

Conforms to the requirements of U.S. Dept. of Agriculture (Meat Inspection Division) for coating structural steel in meat packing plants.
 Approved primer system for miscellaneous fire proofings (Amercoat 71TC as a tiecoat optional).

Repair

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

Physical Data

Finish	flat
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	59 % (ISO 3233)*
VOC (EC SED 1999/13/EC)...	155g/kg (394g/l)
Dry film thickness	75 µm per coat
Number of coats	1
Calculated coverage	7.87 m ² /l (at 75 µm)
Allow for application losses, surface irregularities, etc.	
Specific gravity	2.55 kg/l (mixed product)
Temperature resistance	205°C/401°F dry heat
Flash points	
(Closed Cup).....	°C °F
resin	23 73
cure	23 73
Thinner 91-83	26 79

* Volume solids is measured in accordance with ISO 3233. Slight variations ± 2 % may occur due to colour and testing variances.

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Surface Preparation

STEEL - Blast in accordance with Sa 2½ ISO 8501-1 or SSPC-SP10 NOTE: Blast to achieve a 25 to 50 µm profile as determined with Testex Press-O-Film tape or similar instrument. Remove abrasive residues and dust from surface.

IMPORTANT - Apply Amercoat 68 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, having a 28:1 or higher pump ratio and a fluid tip with a 0.43 to 0.53 mm (0.017 to 0.021 inch) orifice.

CONVENTIONAL SPRAY - Industrial equipment having a Separate air and fluid pressure regulators, mechanical pot agitator and a moisture and oil trap in the main air supply line are recommended.

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

Application Data Summary

Like all high-performance coatings, Amercoat 68 primer must be applied as recommended to obtain the maximum performance. To obtain the maximum performance for which Amercoat 68 is formulated, strict adherence to all application instructions, precautions, conditions and limitations is necessary. If conditions exist that are not within the requirements or limitations described, consult your PPG representative.

Application Data

Substrate	abrasive blasted steel	
Application	airless or conventional spray, brush or roller	
Potlife (at 20°C/68°F)	8 hours	
Environmental Conditions (during application and drying)		
Air temperature	5 to 50°C	41 to 104°F
Surface temperature	5 to 60°C	41 to 140°F

For satisfactory cure, air and surface temperatures must be above 10°C/50°F. To prevent moisture condensation during application, surface temperature must be at least 3°C/5°F above dew point. Never apply coatings under reverse environmental conditions. Ensure good ventilation when applied in confined areas to assist evaporation and eliminations of solvents.

Drying Times (at 75 µm dft and 20°C/68°F)	
dry to handle	3 hours
topcoat time	4 hours

NOTE: drying times are dependent on air and steel temperature, applied film thickness, ventilation and other environmental conditions. Times are proportionally shorter at higher temperature and longer at lower temperatures.

Thinner/cleaner

Thinner 91-83

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Application Procedure

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

Resin: 8 l in 10 l can

Cure: 2 l in 2½ l can

1. Flush equipment with Thinner 91-83 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 Thinner 91-83.
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 107 µm wet film thickness will normally provide 75 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.
11. Clean all equipment with Thinner 91-83 immediately after use or at least at the end of each working day or shift. When left in spray equipment, Amercoat 68 will cure and cause clogging

Shipping Data

Packaging

resin 8 l in 10 l can
cure 2 l in 2½ l can

Shipping weight

resin approx. 24 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 to 104°F).

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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 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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