



Amercoat 4802

Zinc Epoxy Primer

Product Data/ Application Instructions

- High build anticorrosive zinc epoxy primer
- Forms durable coating systems with a wide range of topcoats
- Tough and adherent primer providing excellent resistance to corrosion
- Complies with SSPC-Paint 20

Typical Uses

Amercoat 4802 is a fast drying zinc epoxy primer, providing excellent protection against corrosion. Amercoat 4802 is a tough and adherent primer, used on abrasive blast cleaned steel. It also provides excellent compatibility with old existing coatings allowing its use as a maintenance primer. Amercoat 4802 can be applied by airless or conventional spray with automatic or manual spray equipment. For small areas Amercoat 4802 can be applied by brush. Amercoat 4802 has good compatibility with a variety of topcoats.

Recommended Systems

(With suitable topcoats)

INDUSTRIAL - Structural steel, machinery, pipes and tank exteriors in oil refineries, power plants, chemical process and waste treatment plants and paper mills.

MARINE - Decks of ships, barges and workboats. Piers, offshore platforms and related structures.

TOPCOATING - Suitable topcoats are epoxies and PSX 700. For specific recommendations, contact your PPG representative.

Physical Data

Finish	flat
Colour	redbrown, grey
Components	2
Mixing ratio (by volume)	
resin	4 parts
cure	1 part
Curing mechanism	solvent release and reaction between components
Volume solids	66% (ISO 3233)*
VOC (EC SED 1999/13/EC)...	120 g/kg (286g/l)
Dry film thickness	60-150 µm per coat
Number of coats	1
Calculated coverage	11 m ² /l at 60 µm
Allow for application losses, surface irregularities, etc.	
Specific gravity	2.4 kg/l (mixed product)
Flash points	
(Closed Cup).....	°C °F
resin	32 90
cure	31 88
Thinner 91-92	22 72
Thinner 90-53	25 77

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

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Application Data Summary

Like all high-performance coatings, Amercoat 4802 must be applied as recommended to obtain the maximum protection for which this coating is formulated. To obtain the maximum performance for which Amercoat 4802 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.

Surface Preparation

STEEL - New steel without pits or depressions, blast in accordance with Sa 2½ ISO 8501-1. Previously painted or pitted steel, blast in accordance with Sa 2½. For mild exposures, power tool cleaning in accordance with St 3 is acceptable. **NOTE:** blast to achieve a 40 to 70 µm profile as determined with Testex Press-O-Film tape or similar instrument. Remove abrasive residues and dust from surface. **IMPORTANT** - Apply Amercoat 4802 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 45:1 or higher pump ratio and a fluid tip with a 0.43 to 0.48 mm (0.017 to 0.019 inch) orifice.

CONVENTIONAL SPRAY - Industrial Having 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

Substrate abrasive blasted steel
Application methods airless or conventional spray
Potlife (at 20°C/68°F) 8 hours

Potlife is dependent on temperature and quantities mixed.

Environmental Conditions

(during application and drying)

Air temperature	5 to 50°C	41 to 122°F
Surface temperature	5 to 50°C	41 to 122°F

For satisfactory cure, air and surface temperatures must be above 15°C/60°F.

WEATHER CONDITIONS - 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 elimination of solvents.

Drying and Curing Times

(at 100 µm dft and 20°C/68°F)

dry to handle	3 hours
dry to topcoat	6 hours

NOTE: drying and curing 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 Thinner 91-92

Cleaner..... Thinner 90-53

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Application Procedure

1. Flush equipment with Thinner 90-53 Cleaner 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 5-15 vol.% of Thinner 91-92 thinner.
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 150 µm wet film thickness will normally provide 90 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 90-53 Cleaner immediately after use or at least at the end of each working day or shift. When left in spray equipment, Amercoat 4802 will cure and cause clogging.

Shipping Data

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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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.