



Amercoat 4815 *Quick Drying Zinc Phosphate Epoxy Primer*

Product Data/ Application Instructions

- General prupose epoxy primer/coating for atmospheric conditions
- Fast curing
- Recoatable with most two component epoxyand polyurethane coatings
- Tough with long term flexibility
- Easy application with airless spray

Amercoat 4815 is a high build polyamide epoxy with high solids content designed for industrial use. It adheres strongly to bare steel, primed steel and inorganic zinc silicate coatings on new construction, repairs and field maintenance projects. Amercoat 4815 provides an excellent barrier to corrosion. Amercoat 4815 can be applied by a variety of spray methods to produce a smooth fast-drying high build film.

Typical uses

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 4815 is an alternative for traditional coaltar epoxies.

Physical Data

Finish	flat	
Colour	Grey	
Components	2	
Mixing ratio (by volume) Resin Cure	3 part 1 part	
Curing mechanism	solvent release and chemical reaction between components	
Volume solids 4815	70% (ISO 3233)*	
VOC** EC SED 1999/13/EC	213g/kg (310 g/l)	
Druffler this large 4045	75 - 150 µm per coat (3 – 6 mil per coat)	
Dry film thickness 4815		coat (3 – 6 mil per
Dry film thickness 4815 Number of coats	coat)	coat (3 – 6 mil per
	coat) 1 or 2	coat (3 – 6 mil per 285 ft ² /gal
Number of coats	coat) 1 or 2 7.0 m²/l °C 23 26	
Number of coats Theoretical coverage At 100 microns/4 mil dft Flashpoints Cure Resin Thinner 91-92	coat) 1 or 2 7.0 m²/l °C 23 26 22	285 ft ² /gal °F 74 79 72
Number of coats Theoretical coverage At 100 microns/4 mil dft Flashpoints Cure Resin Thinner 91-92 Thinner 90-53	coat) 1 or 2 7.0 m²/l °C 23 26 22 25	285 ft ² /gal °F 74 79 72

* Volume solids is measured in accordance with ISO 3233. Slight variations

±3% may occur due to colour and testing variances. ** VOC figures are quoted according to both the EC directive 1999/13/EC which are theoretically calculated figures.

Surface Preparation

STEEL - Coating performance is proportional to the degree of surface preparation. . Steel has to be blast cleaned to Iso Sa2 $\frac{1}{2}$ with a blasting profile of 40 – 70 $\mu m.$ Prior to coating, surface must be clean, dry, undamaged and free of all contaminants including salt deposits. Round of all rough welds and remove weld spatter.

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 0.015 to 0.021 inch (0.38 to 0.53 mm) fluid tip. CONVENTIONAL SPRAY Industrial equipment 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	Steel, aluminiu	m, galvanizing.
Surface preparation Steel Aluminium Galvanizing	Abrasive blast Chemical conv sweepblast light sweep bla	ersion or light
Application method	Airless or conventional spray. Touch-up of small areas can be made by brush or roller.	
Mixing ratio (volume) Resin Cure	3 part 1 part	
Environmental conditions Air temperature Surface temperature	5-50 °C 5-60 °C	41-122 °F 41-140 °F

Surface temperature must be at least $3^{\circ}C / 5^{\circ}F$ above the dew point to prevent moisture condensation on the surface.

Potlife (°C/°F)		21/70 4 hrs	
Drying times (°C/°F) Dry to handle		21/70 4 hrs	
Recoat or topcoat times (°C/°F) Minimum time Maximum time	2 hrs	3 hrs	10/50 4 hrs

Maximum recoating/topcoating time intervals are dependent on temperature, degree of weathering, type of topcoat, and service conditions of the complete coating system. Consult your PPG representative for specific recommendations.

Drying times are dependent on temperature, ventilation and film thickness.

Thinner	Thinner 91-92
Equipment cleaner	Thinner 90-53

Amercoat 4815

Application Procedure

- 1. Flush equipment with Thinner 90-53 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 PPG 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.
- Small damaged or bare areas and random pinholes or 9. 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 75 to 100 # μm.
- 11. Clean all equipment with Thinner 90-53 immediately after use or at least after each working day or shift. When left in spray equipment, Amercoat 4815 will cure and cause clogging.

Shipping Data

Packaging 20 I

Resin	15 L in 20 L can
Cure	

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)

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 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.

PPG 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 PPG be liable for consequential or incidental damages. Any recommendations or suggestion relating to the use of the products made by PPG, 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 knowhow 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

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Due to PPG's policy of continuous product improvement, the information contained in this Product Data/Application Instructions sheet is subject to change without notice. It is the Buyer's responsibility to check that this issue is current prior to using the product. For the most up-to-date Product Data/Application Instructions always refer to the PPG Protective & Marine Coatings website at www.ppgpmc.com

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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