

Amercoat 4800

Glassflake Polyester Coating

Product Data/ Application Instructions

- **Glassflake polyester coating**
- **High performance coating for new or old steel**
- **Cures through wide temperature range**
- **Resists high humidity moisture ,aggressive atmospheric environment**
- **Suitable for sea water immersion**

Typical Uses

As maintenance or new construction coating Amercoat 4800 protects both steel and concrete structures in severe environments, including marine structures, petroleum processing and storage facilities and other heavy industrial facilities. On offshore platforms, Amercoat 4800 is suitable for use in splash and tidal zones, under-deck areas and helidecks as well as sub-sea facilities.

Outstanding Characteristics

The glassflake reinforcing provides a high degree of moisture impermeability, along with good abrasion and impact resistance. Amercoat 4800 does not normally require a topcoat, but for appearance, extended weatherability or special use, a topcoat may be desired. Adhere to all application instructions, precautions, conditions and limitations to obtain maximum performance. For conditions outside the requirements or limitations described, contact your Amercoat representative.

Physical Data

Finish	flat
Colour	White. Light Grey
Components	2
Mixing ratio (by volume)	
Amercoat 4800 resin	1 part (98,5%)
Amercoat 4800 cure	1 part (1.5%)
Curing mechanism	chemical reaction between components
Volume solids	100% **
VOC.....	(35.4 g/l)
Dry film thickness	600 - 850 µm per coat
Number of coats	1-2
Calculated coverage	0.998 m ² /l at 1000 µm
Allow for application losses, surface irregularities, etc.	
Specific gravity	1.2 kg/l
Temperature resistance	Dry Wet
Continuous	°C °F °C °F
	120 248 60 140
Flash points (Closed Cup)	°C °F
Amercoat 4800 resin	26 79

** Volume solids is measured in accordance with ASTM D2697 modified. Slight variations ±3% may occur due to colour and testing variances.

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Surface Preparation

Coatings performance is proportional to the degree of surface preparation. Abrasive blasting is usually the most effective and economical method. STEEL - Remove all loose rust, dirt, oil and grease or other contaminants from surface. Blast to Sa 2½ ISO 8501-1 or SSPC-SP-10. Blast to achieve a 50 to 75 µm (2-3 mils) profile as determined with Testex Press-O-Film tape or similar instrument.

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 PUMP 45:1 or greater, fit leather seals and remove fluid filters, 10mm diameter (3/8") nylon lined hoses, Large bore gun with 0.6mm to 1.5mm (24 to 60 Thou) reverse clean tip. Typical tip size is 0.75 to 0.85mm (30-35 thou) with a 45° fan. The size of tip and fan pattern will vary with the nature of the work. Pressure to suit hose lengths and working conditions (circa 200 bar)

Application Data

Substrate steel or concrete

Application methods airless

Environmental Conditions (during application)

Air temperature: 10 - 50°C 50-104°F
Surface temperature: 10 - 50°C 50-122°F
Material: min.10°C min. 50°F

Minimum temperature for satisfactory cure is 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 adverse environmental conditions. Ensure good ventilation when applied in confined areas to assist evaporation and eliminations of solvents.

Potlife (in hours, °C/°F).....	20/68 1
Drying Times (in hours, °C/°F) dry through	20/68 5
Recoating times (°C/°F)	20/68
Minimum (hours)	6
Maximum (hours).....	72

Maximum topcoating interval times are dependent on temperature, degree of weathering, type of topcoat and service conditions of the complete coating system. Consult your Ameron representative for specific recommendations.

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

Cleaner Thinner 50-02

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Application Procedure

Amercoat 4800 is packaged in two components in the proper mixing proportions which must be mixed together before use.

1. Flush equipment with recommended cleaner before use.
2. Stir resin and cure to disperse pigments.
3. Add cure to resin, and mix thoroughly until uniformly blended to a workable consistency.
4. Potlife is limited and shortened by high temperatures; do not mix more material than will be used within the potlife at the specified temperature.
5. For optimum application, material should have a temperature from 10 - 30°C (50 - 86°F).
6. Apply in even, parallel passes; overlap 50% to avoid holidays, bare areas, and pinholes. If required, cross spray at right angles.
7. Ventilate confined spaces with clean air between coats and while curing the final coat. The steel temperature must be at least 3°C/5°F above the dew point to prevent condensation on the surface between coats.
8. Repair any damage by brush or spray.
9. Clean all equipment with recommended cleaner immediately after use. When left in spray equipment, Amercoat 4800 will cure and cause clogging.

Shipping Data

Packaging	
Amercoat 4800 kit	20 l
Shelf life	1 year from shipment date when stored indoors in unopened, original containers at 5 - 40°C (41 - 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 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.

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-conforming 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.

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In no event shall Ameron be liable for consequential or incidental damages.

Due to Ameron'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 Ameron Performance Coatings & Finishes website at www.ameroncoatings.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.