



Amercoat 217

Water borne MIO protective coating

(formerly Steelbond 2704)

Product Data/ Application Instructions

- **Single pack MIO pigmented water borne acrylic coating**
- **EPA compliant (1998)**
- **Low volatile organic compounds**
- **Low odour**
- **Compatible with most aged coatings**
- **Direct adhesion to galvanised steel**
- **Quick and easy to apply**
- **Non flammable**

Typical Uses

- Water borne maintenance coating for:-
- Tank roofs and shell externals
 - General plant and steelwork
 - Street furniture and lighting columns

Physical Data

| | |
|---------------------------|---------------------------------------|
| Appearance when dry | low sheen, metallic sparkle or lustre |
| Colour..... | medium grey, silver grey |
| Components | 1 |
| Volume solids | 50 ± 2% |
| VOC | 95 g/l |
| Curing mechanism | Physical drying |

| | typical | minimum | maximum |
|-------------------------------|---------|---------|---------|
| Dry film thickness (µm)..... | 50 | 40 | 75 |
| Wet film thickness (µm) | 100 | 80 | 150 |

(Wet film thicknesses quoted are theoretical for one brush coat)

| | |
|--------------------------------|---|
| Theoretical coverage | 10.0 m ² /l (at typical dft) |
| Specific gravity | 1.5 kg/l |
| Flash points (Closed Cup)..... | Not applicable |

Amercoat 217

Surface Preparation

All surfaces must be dry and free of dust, salts, grease and other contaminants immediately before coating. Reference should be made to the relevant product data sheets of the recommended primers and cleaning materials as detailed below.

STEEL - applied over Amercoat 148 or other suitable Ameron Coatings anti-corrosive primer.

GALVANISED STEEL – Thoroughly clean with Amercoat 57 or similar degreasing material and rinse with clean fresh water. Ensure surface is free of white zinc salts before coating by scrubbing/scouring the effected areas and rinsing with clean fresh water.

Allow to dry completely before coating.

EXISTING SOUND COATINGS - Feather edges of sound paint back using abrasive means. Roughen surface mechanically to provide a “key” for the new coating.

Mixing

Stir thoroughly before use until the product is uniform throughout.

Application Methods

BRUSH - Apply evenly using a clean, well loaded brush. Do not attempt to “brush out” or “lay off” the wet coating.

ROLLER - Apply evenly making sure the coating is not rolled out too far.

AIRLESS SPRAY - Tip size 17-19 thou (0.43-0.48mm). Use a pump of minimum ratio 30:1 (Graco “Bulldog” or equivalent) capable of producing a minimum pressure at the tip of 2800 psi (200kg/square centimetre).

Application Data

Substrate primed or galvanised steel

Application methods airless spray, brush, roller

Environmental Conditions

Amercoat 217 should only be applied within the limits of temperature and humidity set out below.

Relative humidity: up to 85%.
(Good air movement promotes drying)

Surface temperature:

..... minimum 5°C/41°F
..... maximum 40°C/104°F

The surface temperature must also be at least 3°C/5°F above dew point.

Drying Characteristics

| Temperature °C/°F | 10/50 | 20/68 | 30/86 |
|-----------------------|---------|---------|---------|
| Touch dry | 3 hours | 2 hours | 1 hour |
| Hard dry | 8 hours | 4 hours | 3 hours |
| Overcoating (minimum) | 3 hours | 2 hours | 1 hour |
| Overcoating (maximum) | - | - | - |

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

Overcoating

Can be overcoated with itself to increase the coating thickness or Amercoat 220 water borne finish.

Potlife (at 20°C/68°F) not applicable

Thinner fresh water

Cleaner water, water with detergent

Amercoat 217

Application procedure

1. Clean the equipment with a suitable solvent, then thoroughly flush with water before use.
2. Stir the contents of the can to an even consistency with a power mixer.
3. Thinning is normally not required for airless spray.
4. Stir during use to maintain uniformity of material. When spraying apply a wet even coat in parallel passes. Overlap each pass 50% to avoid bare areas, pinholes or holidays.
5. Double coat all welds, rough spots, sharp edges and corners, rivets, bolts, etc.
6. Application at 100 µm wet film thickness will normally provide 50 µm dry film.
7. 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.
8. Small damaged or bare areas and random pinholes or holidays can be touched up by brush. Repair larger areas by spray.
9. 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.
10. Clean all equipment with water immediately after use or at least at the end of each working day or shift

Before using the product, read the label on the can and consult the material safety data sheet.

Shipping Data

| | |
|-----------------------|---|
| Pack size | 5 litres |
| Shipping weight | approx. 9 kg |
| Shelf life | 1 year from shipment date or as indicated on the label when stored indoors in unopened, original containers at 5 to 35°C (41 to 95°F). Do not allow to freeze |

Amercoat 217

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

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.

Ameron 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 Ameron be liable for consequential or incidental damages.

Any recommendations or suggestion relating to the use of the products made by Ameron, 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 know-how 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

Ameron's liability on any claim of any kind, including claims based upon Ameron's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or part thereof which give rise to the claim.

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.amerondirect.co.uk

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.