



Amercoat 4186

Thixotropic bitumen coating

(formerly Bitumen 2512)

Product Data/ Application Instructions

- **Single pack high build bituminous coating**
- **EPA compliant (1998) as a top coat to PG6/23**
- **Excellent water and humidity resistance**
- **Quick and easy to apply**
- **Brush, roller and spray application**

Typical Uses

Protective coating for steel in enclosed spaces such as cavity walls; structures subjected to aqueous attack, such as tank internals, pipes and gutters; and buried structures, for example roots of lighting columns, masts and towers. Also suitable for application to concrete structures such as pipes and other applications where an economical waterproofing system is required. Not suitable for use in service conditions above 55°C/131°F, exposure to direct sunlight or solvent attack.

Mixing

Stir thoroughly before use until the product is uniform throughout.

Overcoating

Can be overcoated with itself if necessary to increase the coating thickness. Do not overcoat with other generic types of coating.

Physical Data

Appearance when dry	low sheen
Colour	black
Components	1
Volume solids	57 ± 2%*
VOC	345 g/l**
Curing mechanism	solvent release

	typical	minimum	maximum
Dry film thickness (µm)	150	100	225
Wet film thickness (µm)	265	175	395
(Wet film thicknesses quoted are theoretical for one brush coat)			
Theoretical coverage	3.8 m ² /l (at typical dft)		
Specific gravity	1.10 kg/l		
Flashpoint			
(closed cup)	°C	°F	
Amercoat 4186	38	100	
Amercoat 15	38	100	

* Volume solids measured in accordance with ISO 3233. Slight variations +/- 3% may occur due to colour and testing variances.

**VOC measured in accordance with PG6/23 (92) appendix 3

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Surface Preparation

All surfaces must be dry and free of dust, salts, grease and other contaminants immediately before coating. Performance will be dependent upon the degree of surface preparation.

STEEL: - For optimum performance abrasive blast clean to ISO 8501-1 Sa2¹/₂. Alternatively manually prepare the surface to a minimum standard conforming to ISO 8501-1 St2. May also be applied over a suitably primed surface.

CONCRETE: - Any surface laitance must be removed by abrading and any dust and debris cleaned away.

Application Methods

BRUSH/ROLLER - Apply evenly using a clean, well loaded brush or roller. More than one coat may be required to achieve the specified film thickness.

AIRLESS SPRAY – Tip size 18-21 thou' (0.46-0.53mm). Minimum pressure at the tip 2800 psi (200kg/square centimetre).

Application Data

Substrate steel, concrete

Application methods airless spray, brush, roller

Potlife (at 20°C/68°F) not applicable

Environmental Conditions

Amercoat 4186 should only be applied within the limits of temperature and humidity set out below.

Relative humidity: up to 90%.

Surface temperature: minimum 5°C/41°F

..... maximum 35°C/95°F

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

Drying Characteristics

Temperature 20°C/68°F

Touch dry 6 hours

Hard dry 16 hours

Overcoating (minimum) 16 hours

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. Above values refer to typical dry film thicknesses, higher dry film thicknesses will result in longer drying and curing times.

Thinner Amercoat 15

Cleaner Amercoat 15

Amercoat 4186

Application procedure

1. Flush equipment with recommended cleaner before use.
2. Stir the contents of the can to an even consistency with a power mixer.
3. For airless spray, thin only as needed for workability, with up to 10% by volume of the recommended thinner
4. Stir during application 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 265 µm wet film thickness will normally provide 150 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 recommended cleaner 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. 6 Kg
Shelf life	1 year from shipment date or as indicated on label when stored indoors in unopened, original containers at 5 to 40°C (41 to 104°F).

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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.

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

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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.