



# Amercoat 220LS



Waterborne acrylic topcoat

(220 Series)

## Product Data/ Application Instructions

- Water borne one component topcoat
- Fast drying, durable finish coat
- Suitable for temperatures down to 5°C
- Excellent resistance to weathering
- Good impact resistance and flexibility
- Scrub and stain resistant
- Brush, roller or spray application
- Quick and easy clean up
- Low odour, low VOC emission

### Typical Uses

- Walls
- Food processing plants
- Institutional maintenance and new constructions such as schools, hospitals, laboratories shopping centres, and storage areas
- Industrial maintenance and new construction like tank exteriors and structural steel
- Marine applications on vessel topsides and for interiors
- Offshore platform topsides and interiors  
*Not recommended for continuous immersion*

### Systems Using Amercoat 220LS

Amercoat 220LS is a water borne acrylic enamel that can be applied on metals prepared with Ameron intumescent coatings or other compatible Ameron primers on most exterior and interior surfaces. It is ideal for direct application to prepared concrete and masonry and may also be used over most tightly adhering old paint.

Also used as a finish coat over organic primers and inorganic zinc primers for industrial maintenance.

### Physical Data

Finish .....	Semi gloss	
Colour.....	RAL and BS colours*	
Components .....	1	
Mixing ratio (volume).....	NA	
Curing mechanism .....	solvent evaporation	
Volume solids .....	42% (calculated)	
VOC.....	1.5% by weight	
	20 g/l	0.16 lb/gal
Dry film thickness .....	50-75 microns 2 - 3 mils	
Number of coats .....	1**	
Theoretical coverage.....	m <sup>2</sup> /L	ft <sup>2</sup> /gal
at 50 microns / 2 mils dft.....	8.4	342
at 75 microns / 3 mils dft.....	5.6	228
Temperature resistance	°C	°F
Continuous.....	93	200
Intermittent.....	120	250
Flashpoints	°C	°F
Amercoat 220LS.....	> 100	> 200
Thinner .....	Water	
Cleaner.....	Water or water with detergent	

\* Uniform appearance may require two coats of Amercoat 220LS. Use only a light colored primer or intermediate coat when only one finish coat of Amercoat 220LS in a light colour is specified.

\*\*Brush or roller application may require additional coats.



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## Outstanding Characteristics

Amercoat 220 LS provides a beautiful, flexible, cleanable low sheen finish that resists cracking, peeling and impact damage. It retains colour and sheen far better than traditional alkyd or chlorinated rubber topcoats.

Amercoat 220 LS can be used to replace solvent borne alkyd or chlorinated rubber topcoats to significantly reduce solvent emissions.

## Surface Preparation

Steelguard FM intumescent - Ensure surfaces are clean, free from dust, oil, grease, dirt or other contaminants.

STEEL - Prepare surface in accordance with application instructions for the specific primer being used. Be sure primer is clean and dry when Amercoat 220LS is applied.

OTHER COATED SURFACES - Ensure surfaces are clean, free from dust, oil, grease, dirt or other contaminants. Depending on condition and cleanliness of surface, cleaning by high pressure water washing (70 atm/1000 psi or higher) may be required. If substrate coating is not an approved Ameron primer, a test patch should be applied to confirm adhesion.

## 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, such as Graco, DeVilbiss, Nordson-Bede, Speed-Flo, or others and a fluid tip with a 0.28 to 0.43 mm (0.011 to 0.017 inch) orifice.

CONVENTIONAL SPRAY - Industrial equipment such as DeVilbiss MBC or JGA gun with 75 or 765 air cap and "E" fluid tip and heavy mastic spring or Binks No. 18 or 62 with a 66 x 63 PB nozzle setup. Separate air and fluid pressure regulators and a mechanical pot agitator are recommended. A moisture and oil trap in the main air supply line is essential.

MIXER - Use power mixer powered by an air or electric motor.

BRUSH - Natural bristle. Maintain a wet edge.

ROLLER - Industrial roller. Level any air bubbles with bristle brush.

## Application Data

Substrates ..... Prepared and primer steel coated with Ameron intumescent or other suitable primer, prepared concrete, wood, dry wall

Surface preparation..... Refer to Typical Systems for specific primer or intermediate coatings recommended.

Application method..... Airless or conventional spray, brush or roller.

### Environmental conditions

Air temperature .....	4 - 43 °C	40 - 110 °F
Surface temperature.....	4 - 43 °C	40 - 110 °F
Material temperature .....	10 to 30°C	50 - 86 °F

### Relative Humidity (RH)

at 5 to 10°C.....	max. 60%
at 10 to 40°C.....	max. 85%
at > 40°C.....	max. 95%

Surface temperature must be at least 3°C / 5°F above the dew point to prevent moisture condensation on the surface.

### Drying Times as outlined under environmental conditions

Drying times (°C/°F)	49/120	32/90	21/70	10/50
Dry to touch .....	NR	15 min	15 min	45 min
Dry through.....	NR	15 min	30 min	2 hrs

Recoat times (°C/°F)	49/120	32/90	21/70	10/50
Minimum times (hrs).....	NR	0.5	2	6

Thinner ..... Water

Equipment cleaner ..... Water or water with detergent



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## Application Procedure

Amercoat 220 LS is packaged as 5 l in a 5 l can.

1. Clean equipment with suitable solvent, then thoroughly flush with fresh water before use.
2. Stir material thoroughly to a workable uniform consistency with a power mixer.
3. Although high viscous, thinning is normally not needed for spray application. Thin only as needed for workability with no more than 10%. Only fresh, clean water should be used for thinning.
4. Stir during application to maintain uniformity of material. Apply a wet coat by even, 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 120 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 completely dry. Temperature and humidity of ventilating air must be such that moisture condensation will not form on surface.
10. Clean all equipment with fresh water or water detergent immediately after use or at least at the end of each working day or shift. When left in spray equipment, Amercoat 220 LS may cause clogging.

## Repair

Spot blast or power tool clean bare substrate to the requirements shown under surface preparation and prime with original coating material. Feather edges of intact coating. Remove dust, dirt and contamination before recoating.

## Shipping data

Packaging.....	5 L (1.3 gal) in 5 L can	
Shipping weight	kg	lb
.....	approx. 5	11
Shelf life.....	1 year from shipment date when stored indoors in unopened, original containers at 5 to 40°C (41 to 104°F)	

**Product contains water, protect from freezing**

## **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.

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.

## **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.**

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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.

## **Condition of Sale**

All our transactions are subject to our Terms and Conditions of Sale.