



Amerlock 400AL/AL WN

High Solids Epoxy Coating

Product Data

- Amerlock 400AL is a surface tolerant maintenance coating which can be applied to mechanically cleaned surfaces
- Amerlock 400AL WN Wintergrade version can be applied at temperatures down to 0°C
- Gives performance superior to conventional coatings when applied over mechanically cleaned surfaces
- Contains special ingredients which wet the surface and penetrate any traces of existing rust
- Can be applied over most existing coatings and can be topcoated with a wide range of topcoats
- High solids, VOC * compliant
- Compatible with prepared damp surfaces

Typical Uses

Amerlock 400AL is most often used in those areas where blasting is impractical or impossible. Uses include steel structures in industrial facilities, bridges, tanks, marine weathering, oil tanks, piping, roofs, water towers and other exposures subject to high humidity and moisture. Amerlock 400AL has good resistance to splash/spillage and fumes of acids, alkalis, solvents and fresh and salt water. Amerlock 400AL can be applied over damp substrates. For immersion in potable and seawater, abrasive blasting to Sa 2½ is required. For cold climates a special wintergrade version, Amerlock 400AL WN is available for use in temperature between 0°C and 20°C

Outstanding Characteristics

Amerlock 400AL is a high performance coating, which can be applied to mechanically cleaned surfaces. Adhesion is excellent to a wide variety of substrates. Amerlock 400AL has excellent application characteristics. It can be applied by brush, roller, conventional and airless spray equipment.

Recommended Systems

Amerlock 400AL can be topcoated with a wide range of topcoats for a finish colour scheme or for added chemical resistance. Contact your Ameron representative for special recommendations.

Approvals and Certificates

Amerlock 400AL may be used for the transport of grain, as certified by the *North of England Industrial Health Service*. Complies with COT 16.75 and CCOT 17.09 (specifications for epoxy primer and sealer).

* VOC = Volatile Organic Compounds - U.S. regulations for the reduction of solvent emission.

Physical Data

Finish	semi-gloss
Colour	aluminium
Substrate	tightly adhering existing coatings, mechanically cleaned steel
Components	2
Curing mechanism	solvent release and chemical reaction between components
Volume solids	
400AL	85% (ASTM-D2697 modified) *
400AL WN	79% (ASTM-D2697 modified) *
VOC	
400AL	11% by weight/ 150 g/l
400AL WN	12% by weight/ 145 g/l
Dry film thickness	125 µm per coat
Number of coats	1-2
Calculated coverage	
400AL	6.8 m ² /l at 125 µm
400AL WN	6.3 m ² /l at 125 µm
Allow for application losses, surface irregularities, etc.	
Application methods	airless or conventional spray, brush or roller
Potlife	
400AL	4 hours at 20°C
400AL WN	3 hours at 10°C
Drying times at 125 µm dft	400AL(20°C) 400ALWN(10°C)
dry to touch	6 hours 7 hours
dry to handle	24 hours 14 hours (min.)
dry to recoat	16 hours 16 hours
Maximum interval for topcoating depends on coating system to be used. Consult your Ameron representative for specific recommendations. Potlife and drying times are dependent on temperature.	
Induction time (at 20°C)	not applicable
Mixing ratio (by volume)	
resin	1 part
cure	1 part
Thinner	Amercoat 9HF
Cleaner	Amercoat 12
Specific gravity	
400AL	1.31 kg/l (mixed product)
400AL WN	1.23 kg/l (mixed product)
Flash points (Closed Cup)	400AL 400AL WN
resin	51°C 23°C
cure	24°C 43°C
Amercoat 9HF	26°C 26°C
Amercoat 12	-1°C -1°C
Packaging (400AL and 400AL WN)	
resin	10 l in 20 l can
cure	10 l in 10 l can
Shipping weight	400AL 400AL WN
resin	± 13.9 kg 13.3 kg
cure	± 15.7 kg 14.5 kg
Shelf life	2 years from shipment date when stored indoors in unopened, original containers at 5 to 40°C.

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

Application Data Summary

For complete information on procedures, equipment and safety precautions, see application instructions. Like all high performance coatings, Amerlock 400AL/AL WN must be applied as recommended to obtain the maximum protection for which this coating is formulated.

SURFACE PREPARATION/EQUIPMENT -Refer to application instructions for Amerlock 400AL as well as application instructions for primer and intermediate coat(s).

Safety

Since improper use and handling can be hazardous to health and cause 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 to this warranty or credit to Buyer's account in the invoiced amount of the nonconforming 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 nonconformance as required herein shall bar Buyer from recovery under this warranty.

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