

Product Data / Application Instructions

- **Amerlock 400C NS - a high-performance non-skid epoxy coating**
- **High solids, environmentally designed coating**
- **Is applied over suitably primed steel and concrete surfaces**

Typical Uses

Amerlock 400C NS is a high profile deck coating, providing high performance on horizontal steel and concrete surfaces of offshore and industrial facilities.

Recommended Systems

For specific recommendations, please contact your Ameron representative.

Application Instructions

Amerlock 400C NS is a high profile deckcoating, providing high performance on horizontal steel and concrete surfaces of offshore and industrial facilities. Amerlock 400C NS is applied to primed surfaces. To obtain the maximum performance for which Amerlock 400C NS is formulated, strict adherence to all application instructions, precautions, conditions and limitations is necessary. If conditions exist that are not within the requirements or limitations described, consult your Ameron representative.

Surface Preparation

Proper surface preparation and application of underlying coats are essential for maximum performance. Refer to the application instructions for the specific primers being used.

Application Equipment

Amerlock 400C NS is applied by hopper gun, without lid, with 5 mm orifice.
MIXER - Mixer such as Jiffy Mixer, manufactured by the Jiffy Mixer Company, San Francisco, California, powered by an air-driven motor.

Environmental Conditions

(during application and drying)

Air temperature 5 - 50°C

Surface temperature 5 - 60°C

To prevent moisture condensation during application, surface temperature must be at least 3°C above dew point. Never apply coatings under adverse environmental conditions. Ensure good ventilation when applied in confined areas, to assist evaporation and elimination of solvents.

Physical Data

Finish	non-skid
Colour	RAL and BS-colours
Substrate	primed steel or concrete
Components	3
Curing mechanism	solvent release and chemical reaction between components
VOC	6% by weight / 95 g/l
Volume solids	92% (ASTM D2697, modified) *
Dry film thickness	400 - 800 µm per coat
Number of coats	1
Calculated coverage	2.3 m ² /l at 400 µm
Allow for application losses, surface irregularities, etc.	

Application methods	by hopper gun
Potlife (at 20°C)	2 hours
Potlife is dependent on temperature and quantities of mixed.	

Drying times at 20°C and 400 µm dft	
dry to touch	12 hours
Mixing ratio (by volume)	
Amerlock 400C resin	5 l
Amerlock 400C cure	5 l
Amercoat 888 filler	5 l (20 kg)
Thinner	Amercoat 65
Cleaner	Amercoat 12
Flash points (Closed Cup)	
Amerlock 400C resin	43°C
Amerlock 400C cure	36°C
Amercoat 65	24°C
Amercoat 12	24°C
Packaging	
Amerlock 400C resin	5 l in 2 cans of 2½ l
Amerlock 400C cure	5 l in 2 cans of 2½ l
Amercoat 888 filler	5 l (20 kg) in a 25 l can
Shipping weight	
Amerlock 400C resin	approx. 8.5 kg
Amerlock 400C cure	approx. 7.0 kg
Amercoat 888 filler	approx. 21 kg
Shelf life	
400C resin and cure	1 year 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.

Drying and Curing times

(in hours at 400 µm dry film thickness)

	10°C	20°C	30°C
dry to touch	36	12	7

NOTE: Drying and curing times are dependent on air and steel temperature, applied film thickness, ventilation and other environmental conditions. Times are proportionally shorter at higher temperature and longer at lower temperatures. Prior to recoating ensure the surface is clean. Maximum recoating time depends on coating system to be used. Consult your Ameron representative for specific recommendations.

Application Procedure

Amerlock 400C NS is packaged in the proper mixing proportions of resin, cure and filler.

Resin	5 l in 2 cans of 2½ l
Cure	5 l in 2 can of 2½ l
Amercoat 888 filler	5 l (20 kg) in a 25 l can

1. Flush equipment with Amercoat 12.
2. Stir both resin and cure to a uniform consistency with a power mixer.
3. Remove the Amercoat 888 filler from the 20 l can. Pour Amerlock 400C resin in the 20 l can. Add Amerlock 400C cure and mix to a uniform consistency. Add between 5 and 7½ % of recommended thinner and continue to mix until a uniform consistency is obtained. Add the Amercoat 888 filler and continue mixing until uniform.
NOTE: Since the pot life is limited and shortened by high temperatures, do not mix more material than will be used within the potlife at the specified temperature.
4. Adjust pinplunger on hopper gun to obtain an even spattered appearance at the recommended thickness.
5. Normally recommended dry film thickness per coat is 400 µm.
6. Due to the textured surface which this material provides, the thickness of the applied Amerlock 400C NS shall be checked by monitoring application rate (coverage).
7. Clean all equipment with Amercoat 12 cleaner immediately after use. When left in spray equipment, Amerlock 400C NS will cure and cause clogging.

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;

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.

Ameron makes no other warranties concerning the product. No other warranties, whether express, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall Ameron be liable for consequential or incidental damages.

Any recommendation 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.

Conditions of Sale

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

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 exposure and safety measures see Safety Data Sheet.



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