



Performance Coatings & Finishes

Nu-Klad® 105A

Epoxy primer and sealer

Product Data

- Primer for concrete surfaces

Nu-Klad 105A primer/sealer is recommended for concrete surfaces prior to application of Nu-Klad 100A, 110A, 120A and Amercoat® 3228 epoxy surfacers. Nu-Klad 105A is also recommended as a primer for Nu-Klad 470A elastomeric polyurethane, Amerlock® 400 and Amershield™.

As a primer/sealer, Nu-Klad 105A is applied to concrete slabs or to formed concrete surfaces which have been water cured and properly prepared.

As a concrete curing compound, Nu-Klad 105A is applied to concrete slabs immediately after pouring and finishing. Nu-Klad 105A is applied to formed concrete surfaces as soon as the forms are removed, three days after initial pour.

Typical Uses

- Chemical processing plants
 - Power
 - Sewage and waste treatments
- Finishing operations
 - Mining
 - Metal
- Mills
 - Pulp and paper
 - Steel
 - Textile

Typical Systems Using Nu-Klad 105A

Nu-Klad 105A as a Primer

Concrete must cure a minimum of 14 days prior to the application of Nu-Klad 105A as a primer/sealer.

First Coat	Second Coat	Third Coat
Nu-Klad 105A	Nu-Klad 100A, 110A, 120A, 470A or Amercoat 3228	Amerlock 400, Amershield or none

When epoxy surfacers are applied outdoors, over Nu-Klad 105A as a primer/sealer the maximum recoat window is relatively short. If the maximum time is exceeded the Nu-Klad 105A surface will have to be roughened prior to topcoating.

Nu-Klad 105A as a Concrete Curing Compound

Nu-Klad 105A is applied to concrete slabs immediately after pouring and finishing, or to formed concrete surfaces as soon as the forms are removed (three days after initial pour). Concrete must cure a minimum of 14 days (total) prior to topcoating with epoxy surfacers.

First Coat	Second Coat	Third Coat
Nu-Klad 105A	Nu-Klad 100A, 110A, 120A, 470A or Amercoat 3228	Amerlock 400, Amershield or none

When epoxy surfacers are applied outdoors, over Nu-Klad 105A as a concrete curing compound, the maximum recoat time will **ALWAYS** be exceeded and the Nu-Klad 105A surface will have to be roughened.

Physical Data

Color*

Amber, Beige BR-2, Buff Brown BR-3, Deep Blue BL-2, Medium Gray GR-2, Haze Green GN-5, Ivory YE-2, Light Blue BL-4, Oxide Red BR-1, Pearl Gray GR-3, Bright Red RD-1

Components	2	
Curing mechanism	Chemical reaction between components	
Coats	1	
Theoretical coverage per unit	ft ² /gal 250 to 400	m ² /L 6.1 to 9.8

Will vary, dependent upon density or porosity of concrete and method of application.

Volume solids (calculated)	100%	
Temperature resistance	Wet	
continuous	°F 160	°C 71
VOC mixed	0.0 lbs/gal	0.0 g/l
Flash point (SETA)	°F	°C
cure	215	102
resin	183	84
mixed	210	99
Amercoat 12	2	-17
Amercoat 928	175	115

Application Data

Applied over	Concrete
Surface preparation	ASTM D4260, ASTM D4259
Method	Airless spray, brush, roller, squeegee

Working time (hours)	90/32 3/4	70/21 1	50/10 1 1/2
Environmental conditions	°F	°C	
Temperature	50 to 100	10 to 38	
air	50 to 120	10 to 49	
surface	50	10	
material (minimum)			

Drying time (ASTM D1640) (hours)	90/32	70/21	50/10
touch	13	17	24
through	20	24	36

Epoxy surfacing topcoat time over 105A

	90/32	70/21	50/10
minimum (hours)	3	4	6
maximum** (days)			
inside	15	21	30
outside	3	5	7

Amerlock/Amershield topcoat times

	90/32	70/21	50/10
minimum (hours)	13	17	24
maximum*** (months)	3	3	3

*Nu-Klad 105A is subject to color change upon aging.

**Roughen surface if maximum topcoat time is exceeded. Nu-Klad 105A which is thick and glossy must be roughened.

***Roughen surface if maximum topcoat time is exceeded

Equipment cleaner	Amercoat 12 or 928
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Application Data Summary

See Application Instructions for complete information on surface preparation, environmental conditions, application procedures and equipment. To obtain maximum performance, apply as recommended. Adhere to all safety precautions during storage, handling, application and drying periods.

Surface Preparation

Coating performance is, in general, proportional to the degree of surface preparation. All surfaces must be clean, dry and free of all contaminants.

Safety Precautions

Read each component's material safety data sheet before use. Mixed material has hazards of each component. Safety precautions must be strictly followed during storage, handling and use.

This product is for professional use only. Not for residential use.

Warranty

Ameron warrants its products to be free from defects in material and workmanship. Ameron's sole obligation 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 in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for 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, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.

Shipping Data

Packaging	1-gal unit	
cure	1.5 lbs in 1-qt can	
resin	7.9 lbs in 1-gal can	
Shipping weight (approx)	lb	kg
1-gal unit		
cure	1.8	0.8
resin	8.7	4

Shelf life when stored indoors in unopened, tightly sealed containers at 40 to 100°F (4 to 38°C)

resin and cure 1 year from shipment date

The mixed product is nonphotochemically reactive as defined by the South Coast Air Quality Management District's Rule 102 or equivalent regulations.

Numerical values are subject to normal manufacturing tolerances, colors and testing variances. Allow for application losses and surface irregularities.

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.**



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