



**AMERON**  
INTERNATIONAL

Performance Coatings & Finishes

# Nu-Klad® 110A

## Epoxy surfacer

### Product Data

- Three component epoxy floor surfacer
- Resists a wide range of acids, alkalies and solvents
- Good handling characteristics

Nu-Klad 110A is resistant to splash, spillage and fumes of a wide range of acids, alkalies and certain solvents at continuous operating temperatures up to 160°F (71°C). Nu-Klad 110A surfacer also displays excellent resistance to mechanical abuse. Consult your Ameron Technical Services Representative for suitability in specific chemical services.

### Typical Uses

Nu-Klad 110A is used for protection of concrete floors in industries such as chemical processing, power generation, pulp and paper, mines and metal refineries, steel mills, waste water and sewage plants, and food and beverage processing.

### Typical Properties after 7 days @ 70°F (21°C)

#### Mechanical

Density (ASTM D71 modified)	132 lbs/ft <sup>3</sup>
Bond strength to 3000 psi concrete (ASTM C321)	300 psi concrete failure
Tensile strength (ASTM C307)	2,300 psi
Shrinkage (ASTM C531)	0.05%
Compressive strength (ASTM C579)	7,000 psi
Flexural strength (ASTM C580)	3,400 psi
Modulus of elasticity (ASTM C580)	1.3 psi x 10 <sup>5</sup>
Absorption (ASTM C413)	0.036%
Coefficient of thermal expansion (ASTM C531)	20.75 x 10 <sup>-6</sup> in/in/°F

### Physical Data

Color	Gray	
Components	3	
Curing mechanism	Chemical reaction between components	
Recommended thickness	Floors (slabs) only—1/4 in. (6mm)	
Calculated coverage (per unit) 1/4 inch	ft <sup>2</sup> 21.8	m <sup>2</sup> 2.0
VOC	0.01 lb/gal	1.2 g/L
Flash point (SETA) cure	°F >200	°C 93
resin	184	84
Amercoat 6E	63	17

### Application Data

Applied over	Prepared and primed concrete			
Surface preparation	See primer literature			
Primer	Nu-Klad 105A			
Method	Screed and trowel			
Mixing ratio (by volume)	As packaged. Mix full units only			
	°F/°C			
	90/32	70/21	50/10	
Working time (hours)	1 <sup>1</sup> / <sub>4</sub>	2	3 <sup>1</sup> / <sub>2</sub>	
Initial setting time (hours)	12	16	30	
Environmental conditions				
Temperature	°F		°C	
air and surface	50 to 100		10 to 38	
material	65 to 80		18 to 27	
Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation				
Time before service @ 1/4 inch (6mm)	°F/°C			
	90/32	70/21	60/16	50/10
days	2	3	7	14
Equipment cleaner	Amercoat 6E or Amercoat 928			

### Shipping Data

Packaging	60-lb unit	
cure	1.6 lbs in 1-qt can	
resin	7.7 lbs in 1-gal can	
powder	50.7 lbs in 5-gal can	
Shipping weight (approx)	lbs	kg
	64	29

Shelf life when stored indoors at 40 to 100°F (4 to 38°C)  
cure, resin and powder 1 year from shipment date

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

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

## 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, in general, is proportional to the degree of surface preparation. Prior to coating, all surfaces must be clean, dry and free of all contaminants, including salt deposits.

## 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.

## 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.**



**Ameron U.S.A.** • 13010 Morris Rd, Suite 400, Alpharetta, GA 30004 • (678) 393-0653  
**Ameron B.V.** • J. F. Kennedylaan 7, 4191 MZ Geldermalsen, The Netherlands • (31) 345-587-587