



Performance Coatings & Finishes

Nu-Klad® 100A

Spray-on epoxy surfacer

Product Data

- VOC compliant
- Low temperature (below 65°F) application with accelerator
- Sprayable, epoxy monolithic surfacer
- Eliminates troweling, reduces labor costs
- Excellent adhesion
- Resists a wide range of acids, alkalies and solvents
- Indoor or outdoor use
- Dense film composition withstands abrasion and heavy traffic

Nu-Klad 100A provides a long-lasting protection both indoors and outdoors to concrete floors, walls and overhead surfaces exposed to harsh environments within the recommended chemical resistance and temperature limitations. It adheres tightly to the primed concrete substrate, consequently, any cracking of the concrete will result in simultaneous cracking of the epoxy surfacer. Nu-Klad 100A is subject to discoloration on exposure to sunlight or certain chemicals; however performance is not affected. Refer to Nu-Klad Chemical Resistance Chart or contact your Ameron representative.

Typical Uses

- Mining and metal finish operations
- Chemical processing plants
- Power facilities
- Sewage and waste water treatment plants
- Pulp and paper, textile and steel mills

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

Mechanical

Density (ASTM D71 modified)	119 lbs/ft ³
Shear bond strength on steel	1,000 psi
Tensile strength (ASTM C307)	2,900 psi
Compressive strength (ASTM C579)	11,200 psi
Flexural strength (ASTM C580)	5,300 psi
Modulus of elasticity (ASTM C580)	9.4 psi x 10 ⁵

Physical Data

Color	Gray	
Components	3	
Curing mechanism	Chemical reaction between components.	
Recommended thickness per coat		
splash and spill	1/8 in (3mm)	
heavy physical abuse	3/16 in (5mm)	
Coats	1	
Calculated coverage per unit	ft ²	m ²
1/8 in (3mm)	42.9	3.9
3/16 in (5mm)	27.9	2.6
VOC mixed	0.03 lb/gal	3.6 g/L
Flash point (SETA)	°F	°C
cure	>200	>93
resin	174	79
Amercoat® 104 cleaner	176	80
Amercoat 862	178	81

Application Data

Applied over	Primed concrete				
Primer	Nu-Klad 105A primer/sealer				
Filler	Nu-Klad 114A				
Method	Spray				
Material temperature	°F/°C				
	50/10		40/4		32/0
Amount of 862 accelerator	1 pt		2 pt		3 pt
Pot life (hours)	°F/°C				
	90/32	70/21	50/10	40/4	32/0
normal	1½	1	2	–	–
accelerated – 1 pt	–	1½	1	–	–
– 2 pt	–	–	1	3	–
– 3 pt	–	–	–	2	3
Setting time (hours)	°F/°C				
	90/32	70/21	50/10	40/4	32/0
normal	8	28	56	–	–
accelerated – 1 pt	–	12	24	41	78
– 2 pt	–	–	16	35	60
– 3 pt	–	–	–	30	52
Environmental conditions					
Temperature	°F		°C		
air	32 to 90		0 to 32		
surface	32 to 100		0 to 38		
Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation.					
Time before service @ 1⁄8 in (days)	°F/°C				
	90/32	70/21	50/10	40/4	32/0
normal	1	3	10	–	–
accelerated – 1 pt	–	2	6	–	–
– 2 pt	–	–	5	12	18
– 3 pt	–	–	–	10	14
Equipment cleaner	Amercoat 104				

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.

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.

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.**

Shipping Data

Packaging	53.0 lb unit
cure	4.3 lbs in 1-gal can
resin	8.7 lbs in 5-gal can
powder	40 lbs in 3-gal container
Shipping weight (approx)	58.5 lbs 26.6 kg
Freight classification	Acid-proof building cement
Shelf life when stored indoors at 40 to 100°F (4 to 38°C) in unopened, tightly sealed containers	1 year from shipment date

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

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



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