



AMERON
INTERNATIONAL

Performance Coatings & Finishes

Nu-Klad[®] 965

Acrylic-modified cement

Product Data

- Excellent for repairing deteriorated concrete
- Can be used to repitch floors for proper drainage
- Can be trowelled down to a feather-edge

Typical Uses

- Repair concrete

Typical Properties

Mechanical after 7 days at 70°F (21°C)

Density (ASTM C905, method B)	105 lbs/ft ³
Compressive strength (ASTM C109 modified)	2000 psi
Tensile strength (ASTM C579)	500

Outstanding Properties

It is resistant to mild acids, mild alkalies, grease and oil. Can be applied in varying thickness.

Physical Data

Color	Gray
Components	2
Curing mechanism	Chemical reaction between components
Calculated coverage	48 ft ² (4.4 m ²) @ 1/8 in (3mm) 24 ft ² (2.2 m ²) @ 1/4 in (6mm) 12 ft ² (1.1 m ²) @ 1/2 in (12mm)

Application Data

Applied over	Prepared or primed steel, concrete, masonry block	
Surface preparation	Clean surface	
Primer	Nu-Klad 107A or 965 liquid	
Method	Trowel	
Mixing ratio (by volume)	As packaged. Mix full units only.	
	°F/°C	
	70/21	
Working time (ASTM C308)	30 minutes	
Initial setting (ASTM C308)	5 1/2 hours	
Time before ready for Nu-Klad surfacer	3 days	
Environmental conditions		
Temperature	°F	°C
material	50 to 90	10 to 32
air and surface	35 to 110	2 to 43
Equipment cleaner	Water	

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.

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 units	
liquid	8 lbs liquid in a 1-gal polyethylene bottle
powder	48 lbs powder in fiber drum

Shipping weight (approx) 60 lbs

Shelf life when stored indoors at 40 to 100°F (4 to 38°C). Keep liquid from freezing.

liquid and powder	1 year from shipment date
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Numerical values are subject to normal manufacturing tolerances and testing variances. Allow for application losses and surface irregularities.

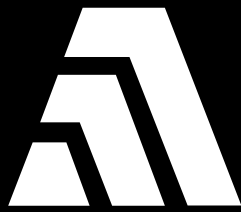
This mixed product is nonphotochemically reactive as defined by the South Coast Air Quality Management District's Rule 102 or equivalent regulations.

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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Application Instructions

Refer to the Product Data Sheet for properties and uses.

Adhere to all instructions, precautions, conditions and limitations during storage, handling, application and drying periods to obtain maximum performance. For conditions outside the requirements or limitations described, contact your Ameron representative.

Surface Preparation

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

Prepared or primed concrete – Surface must be free of contaminants, such as dust, dirt, grease, or oil. Nu-Klad 965 must be applied over wet or tacky Nu-Klad 107 Primer.

Apply to primed concrete at the specified thickness or as required and trowel finish. When Nu-Klad 965 liquid is used as the primer, apply 965 cement the same day and after the 965 liquid has dried to touch.

Masonry – ASTM D4261.

During hot, dry conditions the concrete may be pre-moistened with water to assist in application of 965 direct to concrete or masonry.

Application Equipment

The following is a guide; suitable equipment from other manufacturers may be used. Changes in pressure and tip size may be needed for proper spray characteristics.

Mixer – Power mud mixer with suitable power drill such as Jiffy Mud and Resin Mixer or Foldstir Mixer, each with 1/2-inch shaft.

Trowel – notched with 1/16- to 1/2-inch notches.

Environmental Conditions

Environmental conditions

Temperature	°F	°C
material	50 to 90	10 to 32
air and surface	35 to 110	2 to 43

Mixing

Nu-Klad 965 is unitized and consists of two components which must be mixed together before use. A unit consists of 8 lbs (3.6 kg) of liquid and 48 lbs (21.7 kg) of powder. Do not mix more material than can be used within the working time; 30 minutes at 73°F (23°C). If necessary to mix less than a full unit of material, the mixing ratio is 6 parts powder to 1 part of liquid by weight. Material which has begun to set is unsatisfactory and must be discarded.

Power mixing using a suitable 1/2 inch power drill and mixer is recommended. When mixing more than a unit of material at one time, a 3-6 cu ft revolving drum concrete mixer or mortar mixer is recommended. The material can also be mixed by hand using a mortar box or wheel barrel using a mortar hoe.

Shake the 1 gallon polyethylene bottle containing the liquid to disperse any sediment. Pour the liquid into the mixing vessel. Gradually add powder and mix until cement is uniformly blended to a workable consistency.

If the cement is to applied in thickness greater than 1/4 inch, a stiffer consistency can be achieved by adding additional powder. For application and thickness above 1 inch or for filling deep pitted concrete sections, add gravel to the mix, add 36 lbs (16.3 kg) of 1/4 - 3/8 inch clean gravel to each 56 lb (25.4 kg) unit of material. Immediately after mixing, the Nu-Klad 965 cement is ready for use.

Application

Nu-Klad 965 cement is applied over clean concrete, Nu-Klad 107A primer or 965 liquid primed surfaces. Nu-Klad 965 must be applied over 107A while it is wet or tacky. No minimum drying time of the 107A primer is required. Place the 965 mixed material over the primer, spread and trowel to the desired finish using cement finishers tools.

Ready for service

The Nu-Klad cement will support light floor traffic within 8-12 hours. For overcoating with Nu-Klad epoxy surfacers, cure for 3 days at 73°F (23°C).

Cleanup

Clean all mixing equipment and application tools immediately with water.

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.

CAUTION – Improper use and handling of this product can be hazardous to health.

Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: implementation of proper ventilation, use of proper lamps, wearing of proper protective clothing and masks, tenting and proper separation of application areas. Consult your supervisor. Proper ventilation and protective measures must be provided during application and drying to keep spray mists and vapor concentrations within safe limits and to protect against toxic hazards. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined or enclosed spaces, such as tank interiors and buildings.

This product is to be used by those knowledgeable about proper application methods. Ameron makes no recommendation about the types of safety measures that may need to be adopted because these depend on application environment and space, of which Ameron is unaware and over which it has no control.

If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use the product.

Note: Consult Code of Federal Regulations Title 29, Labor, parts 1910 and 1915 concerning occupational safety and health standards and regulations, as well as any other applicable federal, state and local regulations on safe practices in coating operations.

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