



**AMERON**  
INTERNATIONAL

Performance Coatings & Finishes

# Nu-Klad<sup>®</sup> 110A

*Epoxy surfacer*

## 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.

Nu-Klad 110A is applied to concrete floors (slabs) which have been properly prepared and primed or cured with Nu-Klad 105A Primer/Sealer. See Nu-Klad 105A literature. Concrete must cure a minimum of fourteen days and must have attained 80 percent of its final physical properties before application of Nu-Klad 110A.

The primed concrete surfaces must be clean, free of moisture and contaminants such as dust, dirt, grease or oil. Remove contaminants using a solution of trisodium phosphate (approx. 6 oz/gal or 50 grams/liter) followed by a clean water rinse. Repeat as necessary to completely remove all contaminants. Allow floor to dry or force dry with heat prior to Nu-Klad 110A application.

Nu-Klad 110A is normally applied over Nu-Klad 105A which has cured to a tack-free condition; however, on small areas, application may be made over Nu-Klad 105A while it is still tacky. Nu-Klad 105A primed surfaces aged beyond one month must be roughened. Remove all loose material.

### Expansion/Contraction Joints

Wherever expansion joints, construction joints or control joints are incorporated in the concrete, an elastomeric joint must be incorporated through the surfacer. A temporary spacer, such as rigid polyethylene or polypropylene strips, should be placed over these locations during the application of Nu-Klad 110A. The spacer is later removed and the area filled with Nu-Klad 750A Pour Grade or 760A Caulk Grade Expansion Joint Compound. Refer to Nu-Klad 750A/760A literature.

### Limitations

Discoloration of Nu-Klad 110A will occur on exposure to sunlight or certain chemical agents; however, product performance is not affected and Nu-Klad 110A will continue to provide protection.

Nu-Klad 110A adheres tightly to the properly prepared and primed concrete substrate; consequently, any cracking of the concrete will result in simultaneous cracking of the epoxy surfacer. Nu-Klad 110A should only be used within the chemical resistance and temperature limitations recommended and caution is advised on the use of Nu-Klad 110A where highly corrosive chemicals are involved. Refer to Nu-Klad Chemical Resistance Chart.

## Environmental Conditions

At temperatures 50°F (10°C) or below, curing is retarded. Typical properties of cured material will not be affected provided temperature of the applied material reaches 50°F for the specified time. Application under direct sunlight and rising surface temperatures may result in bubbling of Nu-Klad 110A due to release of air and/or moisture expanding in the concrete. Concrete surfaces exposed to direct sunlight during application must be shaded for 24 hours prior to application of the Nu-Klad Surfacer and remain shaded until the initial set has taken place, 16 hours at 70°F. Where surface temperatures are rising, it may be necessary to postpone application until surface temperature is decreasing.

Temperature	°F	°C
air and surface	50 to 100	10 to 38
material	65 to 80	18 to 27

## Mixing Procedure

Nu-Klad 110A is supplied in a 60-lb unit as follows: cure in a 1 qt can, resin in a 1-gal can and powder in a 5-gal can. Mix only full units. Make no additions or deletions. Do not mix more material than can be used within the working time: 2 hours at 70°F (21°C). Material which has begun to set is unsatisfactory and must be discarded. Thoroughly stir resin to disperse pigment before mixing with cure.

1. Add cure to resin and stir thoroughly.
2. Then add resin/cure mixture to powder stirring thoroughly until uniformly blended to a workable consistency. Mix thoroughly using a power mud mixer such as Jiffy Mud or Foldstir Mixer.

## Application Procedure

Apply Nu-Klad 110A over Nu-Klad 105A which has cured to a tack-free condition 17 hours at 70°F (21°C).

Floors with small pits or depressions: trowel-apply Nu-Klad 110A over the pits and depressions, force material into and completely fill pits and/or depressions before applying the full thickness of Nu-Klad 110A. Thickness should be 1/4 -in (6mm).

Apply Nu-Klad 110A by screeding, using steel bars 1/4 -in (6mm) thick x 1 1/2 -in (3.8 cm) wide (other material may be used) to support screed board and control thickness. Place steel bars on the floor approximately 30 in (76 cm) apart. Place a quantity of mixed material between the bars and screed using a straight edged screed board. After screeding, lightly trowel finish to a dense, smooth surface. Clean trowel as required with Amercoat 6E to prevent sticking. Remove bars upon completion of each section and fill in the void. Immediately after use, clean application and mixing equipment with Amercoat 6E.

## 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.

***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.**



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