



# ALUMI-NOX

Combination chemically active and physical barrier type concrete form release agent for aluminum forms.

Petroleum Based Version = ALUMI-NOX R • Water Based Version = ALUMI-NOX E

## HOW IT WORKS

ALUMI-NOX counteracts the affinity aluminum has for concrete through a mild chemical reaction with the oxidation products present on the aluminum surface. These reaction products are metallic soaps which inhibit concrete adhesion.

## APPLICATIONS

- ◆ For use on new seasoned and previously used aluminum faced forms to facilitate removal from concrete and minimize form cleaning and maintenance.

## ADVANTAGES

- ◆ ALUMI-NOX R is petroleum based. ALUMI-NOX E is water based. ALUMI-NOX E is also available in a concentrated version which is shipped in short-filled containers.
- ◆ Reduces spalling, bugholes and surface voids.
- ◆ Minimizes concrete buildup on form surfaces and panel edges.
- ◆ ALUMI-NOX R sprays easily at all temperatures .
- ◆ Functions well with concrete mix designs that utilize chemical admixtures as well as mineral admixtures, such as fly ash and blast-furnace slag.
- ◆ ALUMI-NOX E is Green Engineered™ – better for health and the environment.
- ◆ VOC compliant in all U.S. states.

## ▲ PRECAUTIONS ▲

- ◆ Water based, chemically active form release agents are not visible on applied surfaces once dry. This is normal and does not affect release agent performance. After form stripping, a white, powdery film will be present on form surfaces. This causes no adverse affects on the form or the concrete and should not be confused with buildup.
- ◆ Aluminum form surfaces vary widely in terms of their reactivity with ALUMI-NOX and cement hydration products. Therefore, user is advised to VERIFY SATISFACTORY PERFORMANCE WITH AN ADEQUATE TEST UNDER ANTICIPATED USE CONDITIONS.
- ◆ Do not use on forms that have concrete buildup. NOX-CRETE'S FORM CLEAN should be used for this application.

- ◆ ALUMI-NOX E is not intended for application under freezing conditions. (Freezing temperatures have no effect on petroleum based ALUMI-NOX R.)
- ◆ Protect ALUMI-NOX E from freezing. If allowed to freeze, product packaging may rupture and the emulsion stability of this product may be affected, making it difficult to keep product mixed during application. Product which is suspected of freezing should not be used.
- ◆ Verify that product is within the "USE BY" date stated on product packaging. Do not use expired product. The use of expired product may result in poor product performance or failure.

## USE INSTRUCTIONS

- ◆ Request current (verify) product literature, labels and material safety data sheets from manufacturer in writing and read thoroughly before product use.
- ◆ Site environmental conditions, substrate conditions, and construction can have a major affect on product selection, application methods, procedures and rates, appearance and performance. Product literature provides general information applicable to some conditions. However, an adequate site test application by the purchaser or installer in advance of field scale use is mandatory (irrespective of any other verbal or written representations) to verify product and quantities purchased can be satisfactorily applied and will achieve desired appearance and performance under intended use conditions.
- ◆ ALUMI-NOX R and ALUMI-NOX E should not be diluted. ALUMI-NOX E in the concentrated version is shipped in a short-filled container and requires dilution by filling the container to capacity with water and mixing well. ALUMI-NOX E should be mixed well before each use. The use of NOX-CRETE'S specially designed drum agitator for mixing 55-gallon drums and tote agitator for mixing 275-gallon totes is recommended.
- ◆ Spray application with NOX-CRETE'S PERFECT FORM AND CONCRETE SPRAYER or PERFECT POWER SPRAYER is recommended. The preferred tip is the 8001LP. Under cool conditions, an 8002LP tip may be required.

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form release agents



chemical solutions to concrete problems

- ◆ Typical application rate on smooth-faced aluminum forms is 1,000-1,200 sf/gal. (25-30 sm/l). Typical application rate on textured aluminum forms, such as brick-patterned surfaces, is 800-1,000 sf/gal. (20-25 sm/l).
- ◆ Apply to clean, reasonably dry forms using care to prevent contact with reinforcing steel. Avoid puddles, runs and excessive spray drift.
- ◆ New, unseasoned aluminum forms should be properly seasoned with NOX-CRETE'S SEASONOX and FORM CLEAN prior to use.
- ◆ ALUMI-NOX E application equipment should be cleaned with soap and water. ALUMI-NOX R application equipment should be cleaned with mineral spirits.

### TECHNICAL DATA

	ALUMI-NOX R	ALUMI-NOX E
Color, ASTM D-2300.....	1.0 - 1.5.....	White
Clarity .....	Clear .....	Opaque
Bulk Density.....	7.2 lbs./gal.....	7.9 lbs./gal.
Viscosity, ASTM D-88 .....	48 SUS at 100° F (32° C).....	N/A
Pour Point .....	0° F (-18° C).....	N/A
Flash Point.....	>100° F (38° C).....	>200° F (94°C)
VOC.....	<250 g/l .....	<250 g/l

### PACKAGING

Packaged in 5 gal (19 l) pails (ALUMI-NOX R), 5.28 gal (20 l) bag-in-a-box (ALUMI-NOX E), 55 gal (208 l) drums and 275 gal (1,041 l) totes.

### SHELF LIFE

Shelf life is one year. Use before the "USE BY" date stated on product packaging.

### HANDLING/STORAGE

Store in a dry location within a temperature range between 40° F (4° C) and 100° F (38° C).

### AVAILABILITY & TECHNICAL SERVICES

In addition to corporate offices in Omaha, Nebraska, NOX-CRETE Products Group also maintains regional offices and distribution centers in principal markets throughout the world. For source or technical information, phone (800) 669-2738 or (402) 341-1976.

### LIMITED WARRANTY

#### NOTICE-READ CAREFULLY

#### CONDITIONS OF SALE

NOX-CRETE offers this product for sale subject to, and Buyer and all users are deemed to have accepted, the following conditions of sale and limited warranty which may only be varied by written agreement of a duly authorized corporate officer of NOX-CRETE. No other representative of or for NOX-CRETE is authorized to grant any warranty or to waive limitation of liability set forth below.

#### WARRANTY LIMITATION

NOX-CRETE warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, NOX-CRETE will replace the defective product with new product without charge to the purchaser.

NOX-CRETE makes NO OTHER WARRANTY, either express or implied, concerning this product. There is NO WARRANTY OF MERCHANTABILITY. In no case shall NOX-CRETE be liable for special, indirect or consequential damages resulting from the use or handling of the product, and no claim of any kind shall be greater in amount than the purchase price of the product in respect of which damages are claimed.

#### INHERENT RISKS

NOX-CRETE MAKES NO WARRANTY TO THE PERFORMANCE OF THE PRODUCT AFTER IT IS APPLIED BY THE PURCHASER, AND PURCHASER ASSUMES ALL RISKS ASSOCIATED WITH THE USE OR APPLICATION OF THE PRODUCT.