



# NOX-CRETE FORM COATING

The world's **FIRST** chemically active concrete form release agent.

• Petroleum Based (450 g/l VOC) Version = NOX-CRETE FORM COATING 450 • Petroleum Based (250 g/l VOC) Version = NOX-CRETE FORM COATING 250 • Water Based Version = NOX-CRETE FORM COATING E • Biodegradable Water Based Version = NOX-CRETE FORM COATING EB • International/Precast Version = NOX-CRETE FORM COATING IP

## HOW IT WORKS

NOX-CRETE FORM COATING chemically reacts instantly upon contact with fresh concrete, positively preventing bonding with the form surface. Byproducts of this chemical reaction waterproof wood forms, greatly extending their useful life. Reacts with steel forms to produce iron soaps, minimizing the formation of rust.

## APPLICATIONS

- ◆ Gives exceptional and unduplicated results on non-overlaid plywood, dimensional lumber and MDO plywood forms and plywood faced handset forms.
- ◆ Designed for use on most all forms, including wood, steel and plastic.

## ADVANTAGES

- ◆ A proven performer since its introduction in 1956 as the world's first chemically active form release agent.
- ◆ Substantially reduces concrete surface voids (bugholes) and will not stain concrete surfaces when properly applied.
- ◆ Provides easy, crisp positive release and eliminates the need for pry tools, minimizing form stripping damage.
- ◆ Minimizes concrete buildup and dramatically reduces form maintenance costs since forms require little, if any, cleaning.
- ◆ Extends the life of wood forms by reducing the absorption of destructive alkaline bleed water.
- ◆ Dries on form surfaces and is not slippery.
- ◆ Prevents accumulation of dust and resists removal by normal rain showers.
- ◆ Concrete surfaces are free of residue and the natural bonding characteristics of paints, plasters, mortars, epoxies and other surface coatings are not affected when NOX-CRETE FORM COATING is properly applied.
- ◆ Softens and removes thin scale pre-existing concrete buildup through repeated use.
- ◆ When applied to the metal edges of modular hand-set forms, forms become self cleaning through use, significantly reducing erection time.
- ◆ Available in petroleum based versions (FORM COATING 450 and 250), a water based version (FORM COATING E), a water based, biodegradable version (FORM COATING EB) and an international/precast version (FORM COATING IP). FORM COATING E is also available in a concentrated version which is shipped in a short-filled container.

- ◆ Petroleum based versions spray easily at temperatures down to -20° F (-29° C).
- ◆ NOX-CRETE FORM COATING EB complies with the US EPA OPPTS 835.31101 Test Protocol For Ready Biodegradability.
- ◆ NOX-CRETE FORM COATING E and EB are Green Engineered™ – better for health and the environment.
- ◆ Available in versions that meet all federal and state VOC requirements.

## ▲ 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 effects on the form or the concrete and should not be confused with buildup.
- ◆ Do not use on plaster waste molds without first applying a suitable sealer.
- ◆ Do not use when forms are to be removed in less than 12 hours unless artificial heat is used to accelerate concrete cure.
- ◆ Application to non-reactive, nonabsorbent plastic or fiberglass forms may be subject to removal by heavy rain. In such exposure situations, the use of NOX-CRETE PCE is recommended.
- ◆ Prevent contact with reinforcing steel. Removal may be accomplished with mineral spirits or naphtha.
- ◆ Do not apply NOX-CRETE FORM COATING to any type of foam or rubber form surface. NOX-CRETE FORM COATING E or EB, PCE and BIO-NOX are generally suitable for use on these form surfaces. Conduct a test application to verify compatibility.
- ◆ NOX-CRETE FORM COATING E and EB are not intended for application under freezing conditions. (Freezing temperatures have no effect on petroleum based NOX-CRETE FORM COATING.)
- ◆ Protect NOX-CRETE FORM COATING E and EB 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.



chemical solutions to concrete problems

## USE INSTRUCTIONS

- ◆ Request current product literature, labels and material safety data sheets from manufacturer and read thoroughly before product use.
- ◆ Site environmental conditions, substrate conditions and construction have a major effect 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 that product and quantities purchased can be satisfactorily applied and will achieve desired appearance and performance under intended use conditions.
- ◆ NOX-CRETE FORM COATING 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. NOX-CRETE FORM COATING E and EB 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.
- ◆ Typical application rate for non-porous form surfaces such as steel, plastic, high density plywood or PRE-FORM or other resin coated plywood is 3,000 sf/gal.
- ◆ Typical application rate for semi-porous form surfaces such as medium density plywood and paper column forms is 1,500-2,000 SF/gal.
- ◆ Typical application rate for porous form surfaces such as non-overlaid or unsealed plywood is 1,000 sf/gal.
- ◆ Typical application rate for very porous form surfaces such as dimensional lumber, rough sawn lumber and striated plywood is 800 sf/gal.
- ◆ Form surfaces should be reasonably dry and clean of buildup, rust, mill scale and any existing form oil prior to application. Replace damaged panels prior to treatment.
- ◆ Apply in thin films to maximize product performance and economy.
- ◆ Spray application is recommended using THE NOX-CRETE PERFECT FORM & CONCRETE or PERFECT POWER SPRAYER. Both are equipped with the proper nozzle size to ensure uniform product distribution.
- ◆ Excess material in the form of puddles, etc., should be picked up with rags.

## TECHNICAL DATA

### Bulk Density

Petroleum Based Versions ..... 7.0 lbs/gal (0.84 kg/l)  
Water Based Versions ..... 8.1 lbs/gal (0.97 kg/l)

### Flash Point, ASTM D-93

Petroleum Based Versions ..... >100° F (38° C) PMCC  
Water Based Versions ..... >200° F (94° C) PMCC

### Color, ASTM D-1500

Petroleum Based Versions ..... 1.0 - 1.5  
Water Based Versions ..... Milky White

### VOC, EPA Test Method 24

Nox-Crete Form Coating 450 ..... <450 g/l  
Nox-Crete Form Coating 250 ..... <250 g/l  
Nox-Crete Form Coating E ..... <150 g/l  
Nox-Crete Form Coating EB ..... <100 g/l  
Nox-Crete Form Coating IP ..... <550 g/l

## PACKAGING

Packaged in 5 gal (19 l) pails (NOX-CRETE FORM COATING 450, 250 and NOX-CRETE FORM COATING IP), 5.28 gal (20 l) bag-in-a-box (NOX-CRETE FORM COATING E and NOX-CRETE FORM COATING EB), 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 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 WITH RESPECT 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.