# PRODUCT DATA

# NOX-CRETE FORM COATING

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

**VOLATILE ORGANIC COMPOUND (VOC) REGULATORY COMPLIANCE**

| | USEPA | OTC I | OTC II | AZ-MCAQMD | CARB - 2000 | CARB - 2007 | CARB-20/SCAQMD | CANADA |
|---|---|---|---|---|---|---|---|---|
| NOX-CRETE FORM COATING 100 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| NOX-CRETE FORM COATING 250 | ■ | ■ | ■ | ■ | ■ | ■ | | ■ |
| NOX-CRETE FORM COATING 450 | ■ | | | | | | | |
| NOX-CRETE FORM COATING E | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

## HOW IT WORKS

NOX-CRETE FORM COATING chemically reacts instantly upon contact with fresh concrete, positively preventing bonding with the form surface. By-products 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.

## ENDORSEMENT

- Factory applied by all North American plywood mills producing MDO Form Plywood. These mills, along with all BBOES and other overelaid panel producers exclusively endorse Nox-Crete and suggest the use of a Nox-Crete form release agent for maximum performance and durability of their panels.

## 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 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, the forms become self cleaning through use, significantly reducing erection time.
- Available in petroleum-based versions (FORM COATING 250 and 450), a water-based version (FORM COATING E).
- Petroleum-based versions spray easily at temperatures down to -20° F (-29° C).
- Can be applied up to three weeks in advance of concrete pour.
- NOX-CRETE FORM COATING E is 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, non-absorbent 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 rubber form surface. NOX-CRETE FORM COATING E, 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 is not intended for application under freezing conditions. (Freezing temperatures have no effect on petroleum-based NOX-CRETE FORM COATING.)

Form Release Agents

nox-crete®

chemical solutions to concrete problems

NSF COMPLIANT TO NSF/ANSI 61

FORM COATING 250 & 450

Green ENGINEERED

- Protect NOX-CRETE FORM COATING 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 that is suspected of freezing should not be used.
- A slight darkening may be observed when this product is stored in polyethylene plastic totes and exposed to ultraviolet radiation from the sun or other artificial sources.

## USE INSTRUCTIONS

- 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.
- Request current product literature, labels, and 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 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 overlaid plywood, or Pre-Form or other resin-coated plywood is 2,000 sf / gal (49 sm / L) with coverage rates as high as 3,000 sf / gal (74 sm / L) possible.
- Typical application rate for semi-porous form surfaces such as medium density overlaid plywood and paper column forms is 1,000 - 1,500 sf / gal (25 - 37 sm / L) with rates as high as 2,000 sf/gal (49 sm/L) on hardwood faced hight flow MDO as well as melamine MDO.
- Typical application rate for porous form surfaces such as non-overlaid or unsealed plywood and very porous form surfaces such as dimensional lumber, rough-sawn lumber, and striated plywood is 800 - 1,000 sf / gal (20 -25 sm / L)
- 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 Nox-Crete’s PERFECT SPRAYER equipped with the appropriate nozzle size to ensure uniform and consistent product coverage. Refer to Nox-Crete’s Sprayer Tip Selection Chart for guidance on spray tip recommendations. Chart can be found in the resource downloads section of the spray tip page at www.nox-crete.com/products/spray-tips
- Excess material in the form of puddles should be picked up with rags.

## TECHNICAL DATA

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|---|---|
| **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 | >200° F (93° C) PMCC |
| Water-Based Versions | >200° F (93° 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 100 | <100 g / L |
| Nox-Crete Form Coating 250 | <250 g / L |
| Nox-Crete Form Coating 450 | <450 g / L |
| Nox-Crete Form Coating E | <100 g / L |
| VOC Classification | Form Release Agents |

## PACKAGING

Product is packaged in 5 gal (19 L) pails, 20 liter pails, 55 gal (208 L) drums, 200 liter drums, 275 gal (1,040 L) totes and 1,000 liter totes.

## SHELF LIFE

Shelf life is 2 years for FORM COATING 100, 250 and 450.

Shelf life is 1 year for FORM COATING E.

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). To minimize darkening, store all polyethylene plastic totes inside and away from direct sunlight and all other sources of ultraviolet radiation.

## AVAILABILITY & TECHNICAL SERVICES

In addition to corporate offices in Omaha, Nebraska, Nox-Crete, Inc. maintains regional offices and distribution centers in principal markets throughout the world. For source or technical information, call 800-669-2738 or 402-341-2080.

## 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.



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