

BIO-NOX VS



Biodegradable, vegetable oil based, maximum performance concrete form release agent.

HOW IT WORKS

Bio-Nox VS chemically reacts with concrete to produce a slippery soap-like film that positively prevents bonding of concrete to form surfaces.

APPLICATIONS

- ◆ Use on most smooth, clean form surfaces such as PSF, HDO and MDO overlaid plywood forms, bare plywood and plywood faced modular forms, steel, plastic and fiberglass forms.
- ◆ Use on many rubber and plastic form liners.
- ◆ Ideal for use where environmental and occupational issues are of the utmost importance, such as enclosed precast operations or enclosed building sites.

ADVANTAGES

- ◆ Readily biodegradable - complies with OECD 301 and OPPTS 835.3110.
- ◆ Free from wax, mineral oil, diesel oil or kerosene.
- ◆ Fast drying.
- ◆ Far less likely to cause release agent related concrete retardation.
- ◆ Provides smooth, uniform concrete surfaces with no release agent staining and aids in the reduction of pinholes and bugholes.
- ◆ Crisp, positive release.
- ◆ Reduces form cleaning and maintenance costs -- forms become self-cleaning with continued use.
- ◆ Reduces likelihood of skin or odor irritations that can occur with petroleum based release agents.
- ◆ Concrete surfaces are free of residue and the natural bonding characteristics of paints, plasters, mortars and other surface coatings are not affected when Bio-Nox VS is properly applied.
- ◆ Can be used in most situations where forms are stripped and repoured within 24 hours.
- ◆ Can be successfully applied to damp form surfaces.
- ◆ Less sensitive to application rate variations than other chemically active form release agents.
- ◆ Green Engineered™ – better for health and the environment.
- ◆ Non-Hazardous.

▲ PRECAUTIONS ▲

- ◆ Do not use on concrete or plaster molds unless they are adequately sealed with a suitable chemically resistant sealer or coating prior to application.
- ◆ Requires reapplication if concrete has not been placed within 14 days following the initial application.
- ◆ The viscosity of Bio-Nox VS increases sharply at cooler temperatures which may affect the ability to spray the product. The minimum recommended product temperature for normal spray applications is 25° F (-4° C).
- ◆ 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 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.
- ◆ Apply at air and substrate (form) temperatures above 25° F (-4° C).
- ◆ Application rates necessary to optimize performance vary with the form surface condition, porosity, concrete buildup (if any), concrete composition, concrete curing time and temperatures.
- ◆ Typical application rate on PSF and HDO plywood, clean, smooth steel or dense plastic forms is 2000-2500 sf/gal (50-60 sm/L). Typical application rate on MDO plywood is 1000-2000 sf/gal (25-35 sm/L). Typical application rate on raw (not overlaid or resin coated) plywood is 800-1000 sf/gal (20-25 sm/L).
- ◆ Spray apply with an 8001 LP or 8002 at a minimum pressure of 40 psi (2.7 bar).

BIO-NOX VS

Form Release Agents



chemical solutions to concrete problems

- ◆ Apply to clean, reasonably dry forms. Use care to prevent contact with reinforcing steel.
- ◆ Can be applied in a very thin film due to its relatively low viscosity.
- ◆ Avoid puddles, runs and excessive spray drift.
- ◆ Promptly wipe up material excesses with clean, dry towels.
- ◆ Promptly clean all form surfaces following stripping.
- ◆ Clean application equipment with mineral spirits immediately following use.

TECHNICAL DATA

Color	Amber
Clarity	Clear
Density	7.34 lbs per gal. (880 kg per liter)
Gel Point	20° F (-7° C)
Flash Point	145° F (63° C)
VOC	<250 g/L

PACKAGING

Packaged in 5 gal (19 L) pail, 55 gal (208 L) drum and 275 gal (1040 L) tote.

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 25° 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, 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.