



MULTI-NOX

Concentrated, multi-purpose, chemically active, water based concrete form release agent designed for most types of concrete mixes, including pozzolan-containing concrete mix designs.

HOW IT WORKS

MULTI-NOX is an economical, concentrated concrete form release agent that combines both a chemically active component and a barrier-type component to achieve improved performance with most types of mix designs, including pozzolan and/or low portland cement-containing concrete mix designs.

APPLICATIONS

- ◆ Use on steel and fiberglass in precast applications, low-cost overlaid import plywood, curb and gutter forms, plastic and plywood faced handset forms.
- ◆ Use in commercial and residential concrete forming applications.

ADVANTAGES

- ◆ Economical alternative to higher cost specialty type form release agents where cost per gallon considerations outweigh performance requirements.
- ◆ Provides improved form release performance with pozzolan-containing (fly ash and blast furnace slag) concrete mix designs.
- ◆ Combines chemically active technology with a barrier component to improve the release properties with even the most difficult concrete mix designs.
- ◆ Dries fast and is not slippery.
- ◆ Resists removal by normal rain showers.
- ◆ Easily diluted and stays mixed well.
- ◆ Can be diluted with water, kerosene or fuel oil.
- ◆ Variable dilution rate allows user the freedom to maximize product performance depending on concrete mix design, stripping schedule and weather conditions by simply adjusting the dilution mix ratio.
- ◆ Outstanding emulsion stability. When diluted with water, MULTI-NOX product components stay mixed longer.
- ◆ Reduces form maintenance costs by reducing concrete buildup.
- ◆ Can also be used as a form maintenance coating to soften concrete buildup on forms by simply reducing the dilution ratio.
- ◆ Will not freeze unless diluted with water.
- ◆ Low odor - does not contain fuel oil.

- ◆ Nonflammable.
- ◆ Meets 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 affects on the form or the concrete and should not be confused with buildup.
- ◆ Not recommended where forms are to be removed in less than 12 hours, unless artificial heat or accelerating admixtures are used to hasten development of concrete surface strength.
- ◆ MULTI-NOX is not freezable unless diluted with water. If diluted with water and allowed to freeze, product may separate, rendering it unsuitable for use.
- ◆ Product must be allowed to dry prior to contact with wet concrete or rain. Drying time will vary depending upon ambient temperature and humidity conditions. Reapply MULTI-NOX if treated form surface is exposed to rain prior to drying.
- ◆ Diluting MULTI-NOX with a petroleum distillate such as kerosene or fuel oil may result in exceeding federal or state VOC regulations. Contact NOX-CRETE for specific information concerning your application.
- ◆ Concrete mix designs and forming substrates can vary widely, affecting the performance of MULTI-NOX. THEREFORE, USER IS ADVISED TO VERIFY SATISFACTORY PERFORMANCE WITH AN ADEQUATE TEST UNDER ANTICIPATED USE CONDITIONS.

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

MULTI-NOX

Form Release Agents



chemical solutions to concrete problems

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.

- ◆ Form surfaces do not have to be completely dry in order to apply MULTI-NOX. Small quantities of water on the form surface, such as dew, will not affect its performance.
- ◆ MULTI-NOX must be diluted prior to use. Product may be diluted with water, kerosene or fuel oil (see PRECAUTIONS). Typical dilution rate is one part MULTI-NOX to six parts diluent, or in other words, one quart MULTI-NOX to six quarts diluent; one gallon MULTI-NOX to six gallons diluent; etc. When diluted with water, a MULTI-NOX and water emulsion is formed. Like all emulsions, periodic mixing is required to prevent product separation.
- ◆ To simplify dilution of MULTI-NOX with water, use NOX-CRETE'S MIX STATION which provides accurate, dependable and economical dilution and mixing performance. Comes equipped with mixing plugs to accommodate varying product temperature conditions - see chart below.
- ◆ MULTI-NOX is most easily applied using a low pressure sprayer. For hand pump spray applications, use NOX-CRETE'S PERFECT FORM AND CONCRETE SPRAYER or the more economical IDEAL FORM AND CONCRETE SPRAYER. Best results are obtained when a uniform application of MULTI-NOX is applied immediately following form stripping. Allow coated form surfaces to dry prior to placing concrete.
- ◆ Application rate required is a function of form surface texture and surface condition and should be verified with test application. Typical application range is 600-800 sf/gal. (15-20 sm/l).
- ◆ Do not over apply. Excess material, runs and puddles can adversely affect performance and should be picked up promptly with rags.
- ◆ Ambient form surface temperature must be in excess of 32° F (0° C) to prevent product from freezing if diluted with water.
- ◆ Prevent material overspray from contacting reinforcing steel and/or tensioning cables.
- ◆ Application equipment and overspray can be cleaned with detergent and water.
- ◆ For use as a maintenance coating, dilute one part MULTI-NOX to three parts water or other diluent.

TECHNICAL DATA

Bulk Density..... 7.7 lbs./gal. (0.92 kg/l)
 Flash Point>200° F (>93° C)
 Odor..... Pleasant
 VOC <100 g/l
 VP <1.0 mmHg

PACKAGING

Product is packaged in 1 gal. (3.8 l) / 8.4 lbs. (3.8 kg), 5 gal. (19 l) / 41.4 lbs. (18.8 kg) and 55 gal. (208 l) / 446 lbs. (203 kg) containers and 275 gal. (1,041 l) / 2,243 lbs. (1,020 kg) bulk totes.

SHELF LIFE

One year from date of manufacture in properly stored original factory sealed containers. Use before expiration date stenciled on the container.

HANDLING/STORAGE

Store product in a dry area away from heat, sparks and open flame. If diluted with water, protect from freezing.

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.

Mix Station Plug Chart

TO ENSURE PROPER DILUTION RATIO, SELECT THE PROPER MIXING PLUG BASED ON THE ACTUAL TEMPERATURE OF THE PRODUCT. PRODUCT TEMPERATURE AND AMBIENT TEMPERATURE ARE NOT NECESSARILY THE SAME.

Release Agent Use

6:1 Recommended Dilution Ratio

Plug #	Product Temperature
6	40° F (4.4° C) - 45° F (7.2° C)
5	45° F (7.2° C) - 52° F (11° C)
4	52° F (11° C) - 59° F (15° C)
3	59° F (15° C) - 85° F (29.4° C)

Maintenance Coating Use

3:1 Recommended Dilution Ratio

Plug #	Product Temperature
Remove Plug	50° F (10° C) - 65° F (18.3° C)
6	65° F (18.3° C) - 85° F (29.4° C)