



## PRECAST RELEASE #80

Chemically active and physical barrier type concrete form release agents specifically formulated for precast applications.

Petroleum Based Version = PRECAST RELEASE #80 • Water Based Version = PRECAST RELEASE #80 E

### HOW IT WORKS

PRECAST RELEASE #80 (PR #80) is both a chemically active and a physical barrier type form release agent. It chemically reacts with the alkalis in concrete to form a slippery soap film which prevents buildup on form surfaces. PR #80 also forms a physical barrier that provides a crisp release for most precast applications, including steam-cured concrete with early strip schedules.

### APPLICATIONS

- ◆ Use on steel, plastic, fiberglass and HDO, PSF and CBF overlaid plywood forms in precast applications.
- ◆ Provides exceptional results in steam-cured precast concrete applications.
- ◆ Ideal for use with problematic precast concrete mix designs incorporating high amounts of cement, fly ash, silica fume or high range water reducers.

### ADVANTAGES

- ◆ Greatly minimizes concrete surface voids (bugholes).
- ◆ Provides a crisp, positive release.
- ◆ Enables user to easily achieve uniformly white architectural surfaces.
- ◆ Fast drying.
- ◆ Minimizes form cleaning and maintenance costs -- forms become self-cleaning with continued use.
- ◆ Low viscosity allows application at very high coverage rates, reducing costs.
- ◆ Non-staining.
- ◆ Does not impair the natural bonding characteristics of subsequently applied paint or other concrete surface coatings.
- ◆ PR #80 is petroleum based. PR #80 E is water based. PR #80 E is also available in a concentrated version which is shipped in a short-filled container.
- ◆ Petroleum based version sprays easily in all temperatures.
- ◆ PR #80 E is Green Engineered™ – better for health and the environment.
- ◆ PR #80 is federal VOC compliant. PR #80 E is VOC compliant in all U.S. states.

### ▲ PRECAUTIONS ▲

- ◆ Do not use on aluminum, medium density overlaid plywood (MDO) or absorbent wood form surfaces. NOX-CRETE'S ALUMI-NOX release agents are recommended for aluminum form surfaces. For medium density overlaid plywood (MDO) or absorbent wood form surfaces, NOX-CRETE FORM COATING is recommended.
- ◆ Certain solvent-sensitive plastic, synthetic rubber or foam forms or formliners may react adversely to solvents in PR #80. In such instances, PR #80 E, PCE, BIO-NOX or NOX-CRETE FORM COATING E water based release agents are recommended.
- ◆ 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.
- ◆ Applications to nonabsorbent plastic or fiberglass forms may be subject to removal by heavy rain. In such instances, the use of PCS or PCE is recommended.
- ◆ PR #80 E is not intended for application under freezing conditions. (Freezing temperatures have no effect on petroleum based PR #80.)
- ◆ Protect PRECAST RELEASE #80 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 product literature, labels and material safety data sheets from manufacturer and read thoroughly before product use.
- ◆ Site environmental conditions, substrate conditions and concrete mix design have a major effect on product selection, application methods, procedures and rates, appearance and performance. Product literature

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form release agents



chemical solutions to concrete problems

provides general information applicable to some conditions. However, an adequate production 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.

- ◆ Form surfaces should be reasonably dry and clean prior to application.
- ◆ For architectural or exposed concrete surfaces, remove all concrete buildup, rust, mill scale and existing form oil residue before application.
- ◆ PR #80 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. PR #80 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 is recommended using THE NOX-CRETE PERFECT FORM & CONCRETE SPRAYER or THE NOX-CRETE PERFECT POWER SPRAYER. Both are equipped with the proper nozzle size to ensure uniform product distribution.
- ◆ Typical application range on steel, plastic and resin-coated wood forms is 2,500 - 3,000 sf/gal. (62-75 sm/l).
- ◆ Do not over apply. Excess material, runs and puddles can adversely affect performance and should be picked up promptly with rags.
- ◆ Prevent material overspray from contacting reinforcing steel and/or prestressed cables.
- ◆ Overspray and application equipment can be cleaned with mineral spirits.

## TECHNICAL DATA

### Bulk Density

Precast Release #80 ..... 7.1 lbs/gal (0.848 kg/l)  
Precast Release #80 E ..... 8.1 lbs/gal (0.97 kg/l)

### Flash Point, ASTM D-93

Precast Release #80 ..... 100° F (38° C) PMCC  
Precast Release #80 E ..... >200° F (94° C) PMCC

### Color, ASTM D-1500

Precast Release #80 ..... 1.0  
Precast Release #80 E ..... Milky White

### VOC

Precast Release #80 ..... <450 g/l  
Precast Release #80 E ..... <250 g/l

## PACKAGING

Packaged in 5 gal pails (PR #80), 5.28 gal (20 l) bag-in-a-box (PR #80 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 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.