

# PRODUCT DATA

## PRECAST RELEASE #80

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

VOLATILE ORGANIC COMPOUND (VOC) REGULATORY COMPLIANCE

PRECAST RELEASE #80 250



PRECAST RELEASE #80 450



### HOW IT WORKS

PRECAST RELEASE #80 (PR 80) is a combination chemically active and physical barrier-type form release agent. It chemically reacts with the alkalies in concrete to form a slippery soap film that prevents buildup on form surfaces. Performs extremely well in most precast applications, including steam-cured 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.
- ◆ Produces 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.
- ◆ Contains a rust inhibitor that minimizes development of rust on steel forms.
- ◆ Does not impair the natural bonding characteristics of subsequently applied paints or other surface coatings to cast concrete surfaces.
- ◆ Sprayable down to 0° F (-18° C) (liquid temperature).
- ◆ PRECAST RELEASE #80B-450 complies with USEPA OPPTS 835.31101 test protocol for inherent biodegradability.

### PRECAUTIONS

- ◆ Do not use on aluminum, medium density overlaid plywood (MDO), or absorbent wood form surfaces. Nox-Crete's ALUMINOX 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 80B. In such instances, BIO-NOX or NOX-CRETE FORM COATING E water-based release agents are recommended.
- ◆ 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.
- ◆ 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

- ◆ Request current product literature, labels, and 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 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.
- ◆ 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](http://www.nox-crete.com/products/spray-tips)

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PRECAST RELEASE #80 250

Form Release Agents

- ◆ 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 or microfiber mop.
- ◆ Prevent material overspray from contacting reinforcing steel and/or prestressed cables.
- ◆ Overspray and application equipment can be cleaned with mineral spirits.

## TECHNICAL DATA

	PR #80-250	PR #80-450
<b>Bulk Density</b>	7.2 lbs / gal (0.87 kg / L)	7.0 lbs / gal (.843 kg / L)
<b>Flash Point, ASTM D-93</b>	>200° F (94° C) PMCC	>200° F (94° C) PMCC
<b>Color, ASTM D-1500</b>	<1.0	<1.0
<b>VOC</b>	<250 g / L	<450 g / L
<b>VOC Classification</b>	Form Release Agents	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. 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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