

DURO-NOX

Maximum performance, chemically reactive, water based, silicate type sealer, hardener and dustproof.

HOW IT WORKS

DURO-NOX deeply penetrates the pores of concrete surfaces where it can chemically react with the available lime to densify and harden the surface from within.

APPLICATIONS

- ◆ Use to seal, harden and dustproof new concrete or existing concrete floors.
- ◆ Ideal for use in warehouses, distribution centers, large retail centers, office complexes, food processing plants, dairies, breweries, slaughtering plants, food lockers, animal pens, bottling plants, chemical plants, etc.
- ◆ Use to dustproof vertical concrete surfaces in situations where dust formation would pose an appearance problem or a contamination problem with building contents, equipment and/or occupants, such as concrete tanks for potable water and other liquid or bulk contents, basements and garages.

ADVANTAGES

- ◆ Increases abrasion resistance up to 39% and increases surface hardness up to 12%.
- ◆ Hardens and increases the abrasion, impact and wear resistance of concrete floors where high volumes of pedestrian and/or vehicular traffic are expected.
- ◆ Provides permanent protection to the depth of penetration.
- ◆ Reduces the porosity of concrete surfaces, providing chemical resistance to most organic acids, alkalis, salts, foods, fats, oils, greases and solvents and sufficient resistance to inorganic acids to permit successful cleanup of spillage.
- ◆ Densifies, strengthens, seals and dustproofs soft or dusty concrete floors.
- ◆ Improves the adhesion of subsequently applied line stripes, paints and coatings to soft or weak concrete surfaces.
- ◆ Overall performance and life far surpasses that of conventional membrane forming acrylic cure and seal type products.

- ◆ Allows the floor to breath, preventing hydrostatic pressure related adhesion failure.
- ◆ May be used in conjunction with all NOX-CRETE SILCOSEAL bondbreakers for tilt-up construction.
- ◆ Meets all federal and state VOC requirements and is USDA approved.

PRECAUTIONS

- ◆ Do not use on latex or epoxy polymer modified concrete.
- ◆ Do not use on concrete previously treated with wax or resin cures, sealers and bondbreaker compounds without their prior removal by chemical or mechanical means as their presence interferes with the penetrating properties of DURO-NOX.
- ◆ Apply at substrate temperatures above 40° F (4° C) and below 120° F (49° C).
- ◆ Avoid contact with glass. If this occurs, flush away immediately with water.
- ◆ Before using on colored concrete, contact NOX-CRETE for specific procedures required. Incorrect application procedures could result in unacceptable discoloration of the concrete surface.
- ◆ If considering the use of DURO-NOX to cure freshly placed concrete, contact NOX-CRETE prior to use for specific limitations and use instructions.
- ◆ Some form of surface preparation is generally required prior to top coating DURO-NOX treated floor surfaces with a subsequently applied paint or coating. For specific surface preparation procedure recommendations see ICRI guideline No. 03732.

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 provides general information applicable to

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cures, sealers & hardeners



chemical solutions to concrete problems

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.

- ◆ Surfaces to be treated must be clean and free from dirt, dust, paint, residual wax or resin curing compounds, bondbreaker, sealers and standing water. For existing concrete surfaces, it is recommended that floors be cleaned using NOX-CRETE'S biodegradable floor cleaner, BIO-CLEAN, and a scrubbing machine with stiff nylon bristles. A dilution rate of 1 part BIO-CLEAN to 5 parts water is generally sufficient.
- ◆ Temperatures during application should be above 32° F (0° C) and no more than 100° F (38° C). To minimize rapid drying in warm weather conditions, best results are obtained if applications occur without contact with direct sunlight or at low sun angles.
- ◆ Apply using a low pressure sprayer, roller, mop, brush, stiff bristle broom or by flood and squeegee.
- ◆ Do not allow DURO-NOX to dry on the floor surface as this can cause white, blotchy discoloration.
- ◆ Typical application rate for new concrete is 150-250 sf/gal (3.7-6.2 sm/l). For existing concrete, typical rate is 100-200 sf/gal (2.5-5.0 sm/l).

CONCRETE SURFACES LESS THAN 1 YEAR OLD

- ◆ Apply to the point of saturation and surface accumulation.
- ◆ Keep the entire treated area wet for a minimum of 30 minutes by respraying any dry spots that may appear with DURO-NOX.
- ◆ After 30 minutes, begin spreading out puddles with a squeegee or broom. During this period, the DURO-NOX will begin to dry by forming a slippery gel on the concrete surface.
- ◆ Lightly mist the treated area with water to assist good penetration and maximum performance.
- ◆ As the surface begins to dry, thoroughly rinse the entire treated area with water and vacuum or squeegee off the excess to prevent any residual staining.

CONCRETE SURFACES OVER 1 YEAR OLD

- ◆ Apply DURO-NOX to the point of saturation and surface accumulation.
- ◆ Keep the entire treated area wet with DURO-NOX for 45-60 minutes by working DURO-NOX into the surface with a stiff bristled push broom or a power scrubber with stiff nylon bristles. Continuously move excess material from low spots to high spots. If drying begins to occur, apply more DURO-NOX to the floor.
- ◆ After 45-60 minutes, DURO-NOX should have turned into a slick gel. Squeegee the excess material to the

next area to be treated. Flush the floor thoroughly with water and scrub with a broom or floor scrubbing machine and squeegee dry.

TECHNICAL DATA

Color	Colorless
Clarity	Clear
Odor	None
Freeze Point	32° F (0° C)
Flammability	Nonflammable
VOC	0 g/l

TEST DATA

Abrasion Resistance, ASTM D-4060	
200 Cycles	39.1% Improvement
300 Cycles.....	33.1% Improvement
Hardening,	
ASTM C-805	12% Improvement In Impact Resistance

PACKAGING

Product is packaged in 5 gal (19 l) / 51 lbs (23 kg) plastic pails and 55 gal (208 l) / 564 lbs (256 kg) steel drums.

SHELF LIFE

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

HANDLING/STORAGE

Store in dry area away from excessive heat, sparks, and open flame. Do not expose product to freezing temperatures which can render product unsuitable for further use.

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.