

PRODUCT DATA

DURO-GUARD

Chemically reactive, water-based, deep penetrating, invisible treatment that provides water, grease, oil and food stain protection for all types of finished concrete floors.

Optional component of the **DURO-FLOOR CLASSIC SYSTEM**.

VOLATILE ORGANIC COMPOUND (VOC) REGULATORY COMPLIANCE



HOW IT WORKS

The small molecular size of the fluoroalkyl silane in Duro-Guard allows it to penetrate deeply into smooth troweled, burnished and polished concrete floor surfaces where it chemically reacts with siliceous containing compounds to form a hydrophobic (repels water and compounds dissolved in water) and oleophobic (repels oil and oil containing compounds) barrier that protects concrete floor surfaces from discoloration, staining and chemical attack. Duro-Guard is not a surface coating and will not alter the natural appearance or texture of treated concrete floor surfaces.

APPLICATIONS

- ◆ For use on all exposed interior, smooth troweled, burnished and polished concrete floors.
- ◆ Protects offices, schools, retail stores, grocery stores, restaurants, kitchens, cafeteria and bathroom floors from oil, grease, food and drink stains.
- ◆ Minimizes interior concrete floor stains in convention centers, sporting arenas, hotels, institutional, religious and government buildings.
- ◆ Protects interior stained or dyed polished concrete floors and gives treated surfaces a natural appearance without any additional gloss.

ADVANTAGES

- ◆ Highly effective fluoroalkyl silane is both hydrophobic and oleophobic (resists surface penetration of water and oil) that protects troweled, burnished and polished concrete floor surfaces from food and drink related staining.
- ◆ Provides 24-hour stain protection to the most common stain causing agents.
- ◆ Scuff and scratch resistant – does form a visible film.
- ◆ Deep penetrating – won't wear off or deteriorate over time.
- ◆ Does alter the natural appearance of concrete floor surfaces.
- ◆ Slip resistance of treated floors is unchanged compared to untreated floors.
- ◆ Easily applied or reapplied with hand pump tank sprayer or airless sprayer.
- ◆ Fast drying.
- ◆ Safe to use -- water based, low odor, no fumes.
- ◆ Does not interfere with the natural vapor transmission properties of concrete floors.
- ◆ Long lasting – up to 3 to 5 years.
- ◆ Meets USDA requirements for incidental food contact.
- ◆ NSF R2 Nonfood compound certified; Registration No. 172258.

- ◆ VOC compliant in all states and Canada.

⚠ PRECAUTIONS ⚠

- ◆ Recommended only for interior use.
- ◆ Must be allowed to cure for 72 hours before wet cleaning.
- ◆ Allow 72 hours of dry time prior to stain resistance testing.
- ◆ Duro-Guard is designed and intended to give a reasonable amount of time for cleanup of spills. Food, drink, oil and grease spills should be cleaned up as soon as practical. Failure to promptly clean up spills may result in concrete surface staining.
- ◆ Protect from freezing. If allowed to freeze, the emulsion stability may be affected making it difficult to keep product mixed. Hard freezing may cause the container to rupture.
- ◆ 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 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.
- ◆ Surface to receive application should be clean, dry and a minimum of 28 days old. All grease, oil, bondbreaker and curing residue and any other contaminants must be removed from the surface prior to application.
- ◆ Do not apply at air or substrate temperatures below 40° F (4° C).
- ◆ Mix well before use.
- ◆ Apply Duro-Guard using a low-pressure hand pump sprayer, such as the Nox-Crete PERFECT SPRAYER, equipped with an 8004LP spray nozzle. Uniformly spread the product using a

Floor Treatment



nox-crete®

chemical solutions to concrete problems



**DURO-FLOOR
CLASSIC SYSTEM**
FOR CONCRETE FLOORS

MICROFIBER APPLICATOR equipped with a microfiber pad.

Application Rates:

Steel Troweled Concrete:

1,000 – 2,000 sq ft/gal (24 - 49 sq m/liter)

Densified, Steel Troweled Concrete:

2,000 – 3,000 sq ft/gal (49 – 73 sq m/liter)

Mechanically Honed and Polished Concrete:

2,500 – 4,000 sq ft/gal (61 – 98 sq m/liter)

- ◆ Application rates vary according to the density and texture of the substrate.
- ◆ For maximum performance, a second coat of Duro-Guard can be applied. Allow 3 hours of dry time between coats.
- ◆ Verify treated surface is completely dry before allowing pedestrian or vehicular traffic to resume.

STAIN RESISTANCE

- ◆ Stain resistance testing was conducted on smooth, steel troweled concrete treated with DURO-NOX liquid silicate hardener and two coats of DURO-GUARD according to recommended application rates. Treated samples were then subjected to multiple cleanings with a floor maintenance pad to adequately test the stain resistance of DURO-GUARD under normal use.

24 HOUR STAIN RESISTANCE TESTING RESULTS

	Untreated Concrete	Concrete Treated with Duro-Guard
Cooking Oil	5	0
BBQ Sauce	5	2
Used Motor Oil	5	0
Mayonnaise	4	1
Red Wine	5	1
Coffee	4	2

Stain Evaluation Scale

0 = None	3 = Moderate
1 = Very Light	4 = Heavy
2 = Light	5 = Very Heavy

TECHNICAL DATA

Color	Water White
Odor	Mild
Bulk Density	8.38 lbs / gal (1.0 kg / L)
Active Ingredient	Fluoroalkyl Silane
Dry Time	1 - 3 Hours
Flash Point	> 150° F
VOC	< 125 g/l
VOC Classification	Low Solids Waterproofing Sealer / Reactive Penetrating Sealer

Third-party verified Environmental Impact Declaration is available upon request.



chemical solutions to concrete problems

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PACKAGING

Product is packaged in 5 gal (19 L) pails and 20 liter pails.

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 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

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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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