

VOLATILE ORGANIC COMPOUND (VOC) REGULATORY COMPLIANCE

DAUERSEAL S

Two component, 100% solids, light stable, non gassing, chemically resistant, medium build epoxy sealer/coating for concrete floors.



Dauerseal S Transparent

Dauerseal S Pigmented

| USEPA | OTC | CARB-SCM | SCAQMD | LADCO | UT-R307 | MCAQD | CANADA | CT, MD, DE, D.C. |
|-------|-----|----------|--------|-------|---------|-------|--------|------------------|
| ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

HOW IT WORKS

DAUERSEAL S maximizes substrate life and keeps work room environments bright and easily maintained. Product develops glossy, smooth film coverings that beautify substrates, improve light conditions, provide excellent wear resistance and protects substrates from damage or disfigurement by most common chemicals, food stuffs, animal byproducts and solvents. Provides good chemical, solvent, and abrasion resistance and excellent film integrity and adhesive characteristics. Available in transparent and pigmented (pigment packs available) versions.

APPLICATIONS

- ◆ For industrial use only on ACI 302, Table 1.1, Class 1, 2, 3 and concrete floors.
- ◆ Use on concrete floors, epoxy and polyurethane floor overlays and exposed aggregate surfaces, and wherever a medium build epoxy coating/sealer is required.
- ◆ Use where substrate profiles require accumulation of more than 6 DFM (150 microns) in a single coating application to achieve desired surface film elevation, smoothness, or appearance.
- ◆ Use where temperatures, humidity or coating film thickness objectives prohibit use of conventional moisture cured or catalyzed polyurethane sealers or coating which generate CO₂ during cure and subsequently gas (cause bubbling in) final films.
- ◆ Use where film thickness objectives, construction schedules, and/or installation environments do not provide time for the multiple applications required with VOC compliant water based coating systems.
- ◆ Use where high solids non-shrinking coating compounds are required, and typical solvent odors and/or related low flash point problems cannot be tolerated.
- ◆ Use where coating performance objectives require the strength, adhesive, and chemical resistance of epoxy resins.
- ◆ Use in manufacturing facilities in conjunction with an anti-skid aggregate to convert excessively smooth, slick, hazardous floors into nonskid highly abrasion resistant surfaces.
- ◆ Use where coating aggregate loading objectives require use of relatively large particulate sizes (in excess of 8 mils or 203 microns) for wear or anti-skid purposes and single coating applications over primed surfaces are necessary.
- ◆ Use where coating chemical, abrasion and stress resistance requirements exceed performance capabilities of acrylic, and conventional epoxy or polyurethane coatings.
- ◆ Typical applications include warehouses, chemical and drug processing/manufacturing plants, theaters, vehicle showrooms, maintenance facilities and supermarkets.
- ◆ Use as elastomeric traffic membrane top coating for providing membrane abrasion resistance and durability.

ADVANTAGES

- ◆ Proprietary chemical cure method eliminates the typical moisture sensitivity of competitive products. This feature translates into excellent product storage stability, easy mixing and application without concern as to incorporation of moisture laden air and resulting CO₂ gassing (bubbling).
- ◆ DAUERSEAL S's essentially solvent free composition eliminates "solvent substrate strike" and film bubbling caused by subsequent solvent escape. These same features permit DAUERSEAL S applications in thick (high build) films without concern as to cure and/or film gassing.
- ◆ DAUERSEAL S cures from the inside out, without producing CO₂. DAUERSEAL S's chemistry reduces the chalking tendency characteristic of epoxy systems on exterior exposures.

⚠ PRECAUTIONS ⚠

- ◆ Do not use where excessive moisture can contact the underside of the cured coating.
- ◆ DAUERSEAL S coated floors may be slick when wet or oily. In such environments, incorporation of suitable anti-skid agent into coating is recommended.
- ◆ Do not use where substrate temperatures exceed 160° F (71° C).

COVERAGE RATES

Vary depending on substrate profile and cover objectives. Coverage approximating 150-200 sf / gal. (40-50 sm / L) on smooth, etched, primed concrete typically provides good cover and gloss.

USE INSTRUCTIONS

- ◆ Request current (verify) product literature, labels and safety data sheets from manufacturer in writing and read thoroughly before product use.
- ◆ Site environmental conditions, substrate conditions, and construction can have a major affect 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 product and quantities purchased can be satisfactorily applied and will achieve desired appearance and performance under intended use conditions.
- ◆ Concrete surfaces to be treated must be dry, a minimum of 30 days old and free from surface accumulations of dust, dirt, oil, debris, curing compounds, bondbreakers, sealers, rubber tire residue, paints, etc. which would prevent penetration, intimate contact between the concrete surface and the primer, or primer adhesion.
- ◆ All substrate surfaces require some preparation prior to coating. New, clean concrete surfaces should be abrasive blasted or acid etched to an equivalent of a 100 grit sandpaper prior to priming and coating installation.

DAUERSEAL S

Floor Coatings & Overlays



chemical solutions to concrete problems

- ◆ Old floors should be mechanically cleaned (sandblasted, shot-blasted, scarified, or other) to remove surface contaminants. Excessively oily or greasy floors may require spot treatment or a general caustic wash prior to chemical or mechanical cleaning.
- ◆ Verify adequacy of surface preparation by priming and topcoating test areas and then verifying satisfactory adhesion.

PRIMING

- ◆ Verify substrate temperatures are above 50° F (10° C) before applying product.
- ◆ Prime with DAUERPRIME 1100.
- ◆ Mix DAUERPRIME components A and B together with a mechanical mixer for 2 minutes (use stopwatch) then apply to substrate at rate sufficient to consolidate substrate and prevent air or solvent migration from or into subsequently applied coating.
- ◆ Apply using brush, roller or airless sprayer. If a sprayer is used, promptly back roll applied product with long nap mohair roller to shear material into substrate and achieve uniform distribution.
- ◆ Allow Primer to reach a tack-free state then commence coating operations promptly - typically 8-12 hours at 70° F (20° C) substrate temperatures. DO NOT allow primer to cure beyond recoating window - typically 24 hours at 70° F (20° C).

COATING

- ◆ Mix DAUERSEAL S A and B components and Pigment Pak A if required together by mechanical means for 3 minutes (use stopwatch). Pour mixed contents into third clean container and remix for another 2 minutes. Apply by airless sprayer, short nap (3/8-1/2 in or 10-12 mm) roller or squeegee to uniform film depth.
- ◆ If aggregate or other particulate matter is to be employed in surface coating for anti-skid or wear resistance, first install a contiguous base coating of minimum 4 WFM (100 microns), allow to cure until tack free but not more than 14 hours. Then apply a surface coating in sufficient wet film millage so as to constitute a minimum of 70% of the particulate diameter. Small particulate can be mixed into the coating prior to application. Larger material should be broadcast into the wet surface coating and immediately rolled in with previously wetted (coating) long nap roller.
- ◆ Avoid foot traffic on treated areas for 24-36 hours and heavy traffic for 48-72 hours.
- ◆ Discard unused material from the sprayer or roller pan immediately following application. Clean application equipment immediately with NOX-CRETE's SOLVENT C, a urethane/epoxy cleaning solvent, or xylene. Discard used rollers, brushes, etc. as they cannot be cleaned satisfactorily. If a sprayer is used, be certain to clean sprayer completely after use and if sprayer is to be shut down for more than 10 minutes.

MAINTENANCE

- ◆ For maximum film life and performance, wipe up all chemical, solvent, or petroleum spills as soon as possible, and remove abrasive accumulations via sweeping. Periodic washing with detergents and buffing help maintain surface luster. Where films have been damaged, promptly clean areas as required and recoat.

TECHNICAL DATA

| | |
|-----------------------------|---|
| Brookfield Viscosity | c.a. 770 cps @ 70° F (21° C) |
| Pot Life | 20 min. @ 70° F (21° C) |
| Shelf life | Mix 1 year |
| Mix ratio - volume | 2,3: 1 (A:B) |
| Nonvolatile | essentially 100% |
| Taber abrasion | CA 17 wheel, 1 000g load, 1 000 cycle 48 TWI |
| Tensile | 3 500 psi |
| Pencil hardness | 4H |
| VOC | <50 g / L |

Provides 1-hour minimum spot resistance to these chemical substances with little if any coating effect:

| | | |
|-----------------------------|----------------------------|---------------------------|
| 1N Hydrochloric Acid | Dilute Acetic Acid | Ketones |
| 1N Lactic Acid | Ethyl Alcohol | Manure |
| 3N Sodium Hydroxide | Fatty Acids | Petroleum Oil |
| 3N Sulfuric Acid | Fatty Acids | Propyl Alcohol |
| Antifreeze | Fruit Juice | Toluene |
| Brake Fluid | Gasoline | Trichloroethane |
| Butyl Alcohol | Glacial Acetic Acid | Urine |
| Dairy Products | Hydraulic Oil | Vegetable Extracts |
| Dairy Whey | Isobutanol | Water |
| Deicing Salts | Isopropanol | Xylene |
| Diesel Fuel | Jet Fuel A | |

PACKAGING

Component A is packaged in a 5 gal (19 L) pail
 Component B is packaged in a 2 gal (7,6 L) pail
 Pigment Pak "A" 0,5 gla. (950 mL) pack
 Total combined volume (for transparent and pigmented): 4,5 g (17 L)
 Ample room for mixing is allowed.
 Shipping weight per kit (transparent) is approx. 43 lbs (19,5 kg)
 Shipping weight per kit (pigmented) is approx. 47 lbs. (21,3 kg)

SHELF LIFE

Shelf life is one year. Use before the "USE BY" date stated on product packaging.

STORAGE

Store in clean, dry place at room temperatures. Component A may partially crystallize during extended storage at cold temperatures. Call Nox-Crete for details regarding reliquidification.

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, 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.