

## DAUERGROUT E



High performance, architectural grade, epoxy/polyurethane copolymer flooring system.

### HOW IT WORKS

Dauergrout E, fully cured and sealed, forms a dense surface that is extremely hard and virtually impermeable. This is achieved by combining several types of graded, angular shaped aggregates that, when trowelled, lay down like platelets to eliminate voids and maximize surface density.

### APPLICATIONS

- ◆ Use to patch, reprofile or overlay damaged, eroded or pitted concrete floor surfaces.
- ◆ Use to reprofile saw cut crack control joint shoulders.
- ◆ Use to anchor bolts, base plates, railings, dowels, reinforcing steel, pipes, electrical fixtures and equipment into concrete.
- ◆ Use as a patching material in horizontal, vertical and overhead applications for precast panels, tilt-up panels, beams, columns, floor slabs, ramps and stairways.
- ◆ Use for quick structural repair of popouts caused by corrosion of reinforcing steel.
- ◆ For use in environments requiring USDA and/or FDA approval, such as food handling facilities, hospitals, supermarkets, correctional institutions, food processing and packaging operations.

### ADVANTAGES

- ◆ Produces an exceptionally hard-wearing, smooth, non-dusting surface which resists chemical and solvent attack, thermal induced stress failures, UV sunlight induced oxidation and damage from high abrasion.
- ◆ Rejuvenates, beautifies and protects concrete and reduces maintenance requirements.
- ◆ Maintains excellent substrate adhesion even when exposed to exterior freeze/thaw cycles.
- ◆ Superior performance and more resistant to delamination than conventional epoxy and polyurethane grout flooring products due to its resilient copolymer design.
- ◆ Available in non-pigmented or pigmented versions.
- ◆ Provides 24 hour spot resistance to the following:

12N Hydrochloric Acid	1N Lactic Acid	2N Acetic Acid
5N Sulfuric Acid	7N Sodium Hydroxide	Antifreeze
Avgas	Brake Fluid	Butyl Alcohol
Dairy Products	Dairy Whey	Deicing Salts
Diesel Fuel	Fatty Acids	Fruit Juice
Gasoline	Hydraulic Oil	Isobutanol
Isopropanol	Jet fuel A	Ketones
Manure	Petroleum Oil	Propyl Alcohol
Skydrol	Toluene	Trichloroethane
Urine	Vegetable Extracts	Vegetable Oil
Water	Xylene	

- ◆ Anti-skid additive can be incorporated into the top coat for additional slip resistance. For a more decorative appearance, colored quartz aggregate can be embedded or top coat broadcast by incorporating the Dauercast DQ system as a topcoat.
- ◆ Can be featheredged without sacrificing adhesion.
- ◆ Cost effective alternative where curing conditions and/or weight limitations prevent using concrete or latex modified concrete.
- ◆ Dramatically increases the life of concrete surfaces exposed to heavily loaded steel wheel traffic.
- ◆ Green Engineered™ – better for health and the environment.
- ◆ Meets all federal and state VOC requirements.

### ▲ PRECAUTIONS ▲

- ◆ Do not use in areas where there is frequent exposure to oxygenated or halogenated organic solvents.
- ◆ Do not apply at substrate temperatures below 55° F (13° C).
- ◆ Use of Dauergrout E topping compound is limited to intermittent exposures of maximum temperature 200° F (93° C) or repeated contact with liquids at a maximum of 140° F (60° C). Extended exposure beyond 160° F (71° C) is not recommended and may result in product failure.
- ◆ Installation in confined areas or areas without adequate ventilation may result in excessive vapor accumulations which can be absorbed by foodstuffs.
- ◆ Do not contact with concentrated mineral acids.

### USE INSTRUCTIONS

- ◆ Request current (verify) product literature, labels and material 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.
- ◆ Typical application rate at 1/4 in (6mm) thickness is 22 sf (2 sm). At 3/8 in (9.5 mm thickness, the typical application rate is 14 sf (1.3 sm).
- ◆ All surfaces to receive Dauergrout E must be Primed with Nox-Crete's Prime 1100.
- ◆ Verify that substrate temperatures are above 50° F (10° C) before beginning application.

DAUERGROUT E

Grout, Patch & Floor Topper



chemical solutions to concrete problems

- ◆ Product cure is affected by substrate temperature. With a substrate temperature of 70° F (21°C), Dauergrout E is typically 85% cured in 24 hours and 100% cured in 7 days. Light foot traffic can typically be resumed in 12 hours at this temperature. Avoid heavy traffic for 72 hours to allow maximum abrasion resistance to develop.
- ◆ Concrete surfaces to be treated must be clean, dry and at least 30 days old.
- ◆ All surface contaminants, including dust, dirt, oil, cures, bondbreakers, rubber tire residue, paints, etc., which could prevent the penetration and direct contact and adhesion between the concrete surface and the Primer must be removed.
- ◆ Old floors should be mechanically cleaned (sandblasted, scarified, etc.) to remove any surface contaminants and then acid etched.
- ◆ 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.

## PRIMING

- ◆ Mix Prime 1100 components A and B together with mechanical mixer for 2 minutes (use watch) then apply to substrate using a brush, roller, or airless sprayer. If spray applicator is used, promptly follow sprayer with suitable roller to distribute material uniformly into substrate.
- ◆ Following application of Prime 1100, immediately proceed with application of Dauergrout E. Do not allow Primer to become tack free.
- ◆ Application of Dauergrout E should be completed within four hours of Primer application.

## INSTALLATION

- ◆ Premix Component A, Component B and Component D together in a clean, empty pail.
- ◆ In a wheel barrow or mortar paddle mixer, mechanically mix these combined components with the aggregate component for 5 minutes.
- ◆ When mixing is complete, Dauergrout E can be placed, screeded and finished to the desired thickness.
- ◆ Best results are obtained when material is immediately removed from the mixer and quickly screeded into thin sections of approximate desired elevation, then finished.
- ◆ Material must be tightly compacted by hard troweling with a steel trowel with full shoulder pressure to eliminate air voids and to seal the surface completely. A soap and water mixture on the underside of trowels can prevent sticking.
- ◆ When applying Dauergrout E to vertical or overhead surfaces, apply in thin multiple coat increments to desired thickness.
- ◆ Clean equipment and tools using xylene.
- ◆ Prevent water from contacting Dauergrout E for 48 hours following installation.
- ◆ When topping over dynamic control and expansion joints, terminate overlayment, tool, and caulk grout directly over joints to eliminate random cracking in topping.

## MAINTENANCE

- ◆ Regular sweeping and washing of Dauergrout E floor surfaces is recommended. DO NOT use steam.
- ◆ Worn or damaged areas should be promptly retreated with adequate preparation.

## TECHNICAL DATA

<b>Tensile Strength ASTM C-307</b>	1,500 psi
<b>Compressive Strength ASTM C-579</b>	11,000 psi
<b>Tabor Abrasion Test ASTM D-1044CS-17</b>	0.1 gm Max
<b>(Wheel wt.loss 1,000 gm load, 1,000 cycles)</b>	
<b>Shore Hardness ASTM D-2240</b>	D85
<b>Bond Strength</b>	400 psi
<b>Indentation (MIL-D-3134F)</b>	No Indentation
<b>Flammability (ASTM D-635)</b>	Self Extinguish 0.25 in.
<b>Thermal Compatibility, ASTM C-884</b>	Passes Test
<b>VOC</b>	34 g/L

Conforms to ASTM C-881 Type III standard

## .45 CUBIC FT KIT COMBINED YIELD

<b>Component A</b>	0.4 gal (1.4 L)	3.3 lbs (1.5 kg)
<b>Component B</b>	0.7 gal (0.7 L)	1.5 lbs (0.68 kg)
<b>Component D</b>	1/2 pint (238 mL)	0.35 lbs (0.16 kg)
<b>Aggregate (Dry Bag)</b>	50 lbs (22.7 kg)	

## PACKAGING

Packaged in 0.45 Cubic Foot kits. Bulk components also available.

## SHELF LIFE

Shelf life is two years. Use before the "USE BY" date stated on product packaging.

## HANDLING/STORAGE

Store in clean, dry place at room temperatures. Component A may partially crystallize during extended storage at cold temperatures. Consult NOX-CRETE for details regarding reliquification.

## 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.

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