

NS-3000 BC Sealer System

Industrial Uses

Type

3000 Broadcast / Sealer System is a two component, 100% solids epoxy system designed as a broadcast topping system on concrete or as a concrete sealer treatment prior to applying FluoroGrip films. It is formulated with a flow agent to reduce tension, and potential for fish eyeing in the surface. It is U.S.D.A acceptable for use as a topcoat in food processing plant. It can also be bulked up w/sand or cavasil for filling "bug holes" and smoothing surface imperfections. Primary use is as a concrete topping and/or sealer preparation prior to applying a FluoroGrip fluoropolymer film or MX-Membrane system

Advantages

- Excellent Chemical Resistance
- Excellent Temperature Tolerance
- Used Over A Variety Of Substrates
- Slip Resistant—with aggregate
- Durable & Water Resistant
- Excellent Adhesion
- Excellent penetration (when thinned) for sealing concrete

Uses

- Containment Dikes & Pads
- Coolers
- Refrigeration Units
- Laboratories
- Chemical Process Areas / Lines
- Pharmaceutical Research Areas
- Food Plants

Supplemental Products

- FluoroGrip® Fluoropolymer Membranes
- FluoroGrip® MX Membrane
- FS-400 Epoxy Filler Sealer
- NS-6000 Epoxy Novalac Topping
- NS-7000 Vinyl-Ester Topping

Packaging

NS-3000 is packaged in 1 gallon or 3 gallon kits:

- (1) container—Part A Resin (liquid)
- (1) container—Part B Hardener (liquid)

Physical Properties

Compressive Strength (psi), ASTM-579 (resin): 11,500

Tensile Strength (psi), ASTM D-638 (resin): 4, 100

Flexural Strength (psi), ASTM C-580 (resin): 6,200

Bond Strength, ASTM C-321: Greater than 350 psi
100% concrete failure

Coefficient of Thermal Expansion: 1.2×10^{-5} in./in./°F

Indentation, MIL-D-3134F: No indentation

Shore Hardness, A/D: 90 / 70

Flammability: Does not support combustion

Water Absorption (%), ASTM C-413, 24 hrs in H2O: 0.04

Working Time at 75°F (24°C), ASTM C-308: 20-30 minutes

Shelf Life: 1 year

Colors: Clear (amber), Red, Gray, Black

Solids by Content:

By Weight: 100%
By Volume: 100%

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Coverage

One gallon of NS-3000 Broadcast / Sealer System will cover approximately 107 square feet of surface at 15 mils or 500 sq. ft. when used as a sealer and thinned 25-50%.

Mixing

Prior to mixing, materials should be stored at 70°F (21°C) at least 48 hours. Empty Part A into Part B and mix with a low speed drill for approximately 2 minutes. When using as a sealer only, thin 30-50% with acetone or MEK.

Application

For best results, surface temperature should be at 65°F-85°F (18°C-29°C) during installation, and for 48 hours for complete cure. Do not apply NS-3000 when substrate temperature is below 60°F (16°C). Apply NS-3000 in a thin, even layer with a squeegee and back roll with a short nap roller. Re-coat if necessary after a minimum of 8 hours. Unless otherwise specified, NS-3000 is designed to follow the contour of the floor.

NOTE: NS-3000 can be applied as a two-coat broadcast system. After the first resin coat is applied, broadcast aggregate into the wet resin to rejection. Allow resin to cure and sweep up excess silica. Apply second coat of NS-3000 at approximately 15 mils.

FOR USE AS A CONCRETE SEALER UNDER FILM OR MEMBRANE: Thin approximately 25-50% as needed to seal concrete. Can be bulked with fillers (cavasil, sand, etc.) to fill bug holes, voids and fill imperfections in the concrete

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Curing Time

NS-3000 will harden for foot traffic in 6-8 hours at 75°F (24°C). Maximum chemical resistance will occur after 48 hours of cure time at 75°F (24°C). Will bond to practically all properly prepared surfaces.

Clean Up

Cured or hardened NS-3000 will bond to practically all surfaces and is extremely difficult to remove. Clean all tools and mixer immediately after use with acetone or other solvent based cleaners.

Safety

Avoid contact with skin. If accidental eye contact occurs, flush with water and consult a physician immediately. Keep work areas well ventilated. Never reseal a container of mixed Part A and B as the continuing reaction may cause container to explode. NS-3000 Material Safety Data Sheets are available upon request.

Note

Refer to FluoroGrip® installation manual and instruction guide for use with FluoroGrip® membranes and lining systems.

Application Data

Preparation

NS-3000 may be installed only on clean, sound surfaces. All coatings, oils, grease and unsound concrete substrate must be removed prior to application. Concrete surfaces must then be scarified or shot blasted to remove surface laitance. Metal surfaces should be profiled by grinding or blasting. New concrete must be cured for a minimum of 28 days.

For use with films and membranes the surface must have all tie-wires, fins and sharp protrusions removed.

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