



Fluoropolymer Linings and Coatings

Technical Data

FluoroGrip® – Chemical Resistant Topping NS-6000

Industrial Uses

Type

FluoroGrip® Epoxy Novalac NS-6000 is a two-component, 100% solids, NOVOLAC epoxy system designed for maximum chemical resistance. NS-6000 may be applied over FluoroGrip® membranes and up to 5/8" thickness, or as a stand-alone coating.

Uses

- Topping for traffic areas using FluoroGrip® membranes
- Tank Farms
- Trenches and sumps
- Liquid transfer stations
- Chemical process plating lines
- Pits
- Traffic areas

Supplemental Products

- FluoroGrip® Fluoropolymer Membranes
- FS-400 Epoxy Filler Sealer
- CP-300 Conductive Epoxy Primer

Packaging

NS-6000 is packaged in 1-gallon units: One – 1/2 gallon can part A hardener, and One – 1 gallon can part B resin.

Coverage

One – 1 gallon kit of NS-6000 will cover approximately 50 square feet at 1/16" nominal thickness. Coverage will vary depending on surface condition and application techniques.

Application Data

Preparation

NS-6000 may be installed only on clean, sound surfaces. All coatings, oils, grease and unsound concrete substrate must be removed. 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.

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Physical Properties

Color: Various

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: Approximately 40 minutes

Shelf Life: 1 year

Solids by Content:

By Weight: 100%

By Volume: 100%

Integument

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Mixing

Prior to mixing, materials should be stored at 70°F (21°C) at least 24 hours.

Empty Part A into Part B and mix with a low speed drill for approximately 2 minutes.

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-6000 when substrate temperature is 60°F (16°C). Apply NS-6000 in a thin, even layer with a short nap roller to the required film thickness. Re-coat may occur after 8 hours to a maximum of 24 hours. Do not allow more than 24 hours before recoating.

When using NS-6000 as a stand alone broadcast system, apply the mixed liquids with a squeegee or a roller at a rate of approximately 107 sq. ft. per gallon and broadcast the selected chemically resistant aggregate into the wet surface. Leave a 1 foot wet edge for the next batch of liquids. Allow first coat to set for 6-8 hours at 70°F (21°C) or until hard. Sweep off excess aggregate. Repeat application of liquid resin and aggregate until desired thickness is reached. (The usage of liquid resin for subsequent coats will vary depending on the size of the aggregate used for broadcasting. Larger aggregate will require more resin to completely wet the previous broadcast.) After sweeping off excess aggregate from the last coat, seal with a final application of liquid resin and allow to cure.

Curing Time

NS-6000 will harden to foot traffic in 8-12 hours at 75°F (24°C). Maximum chemical resistance will occur after 48 hours of cure time at 75°F (24°C).

Clean Up

Cured or hardened NS-6000 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

Make every effort to 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-6000 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.

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