SEALER 50

TWO COMPONENT, NANO ENHANCED, HYBRID FLUOROPOLYMER SEALER WITH HIGH STAIN AND WEAR RESISTANCE

FEATURES

Excellent Color Stability
Excellent Stain Resistance
High Gloss and Satin Finish Available

RECOMMENDED APPLICATIONS

Clean Rooms  Tarmacs
Warehouse  Maintenance Floors
Airplane Hangars
Hospitals / Operating Rooms

CHEMICAL RESISTANCE

Betadine  Bleach Solutions
Oils  Solvents
Gasoline  Sulfuric Acid - Skydrol
50%Jet Fuel  Hydrogen Peroxide
Sodium Hydroxide - 50%

COLORS:  Clear, White and Selected Colors

PHYSICAL PROPERTIES

Solids by Volume  30%
VOC  <50g/l
Drying Time, 4 mils WFT  18 hours
Pencil Hardness  2H (Scratch)
Impact
   Direct  > 160 inch pounds
   Indirect  > 160 inch pounds

SPECIFICATIONS

Sealer 50 shall be a two-component, nano enhanced hybrid, fluoropolymer coating applied over repaired and primed concrete as manufactured by Dudick, Inc. Material can be applied by brush, roller or spray in accordance with the manufacturer’s recommended practices.

Sealer 50 offers the outstanding color stability and resistance to UV degradation known industry wide to be inherent of fluoropolymer chemistry. Toughness and resistance to impact and staining are also characteristic of Sealer 50. High gloss, satin finish, and textured versions are available in clear and pigment versions.

ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL

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<th>APPROXIMATE SQUARE FEET PER GALLON</th>
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<td>CONCRETE</td>
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<td>PRIMER 67</td>
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<td>Theoretical Coverage</td>
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**Quantities shown are for estimating purposes only. Actual field usage may vary.

APPLICATION INSTRUCTION

SURFACE PREPARATION

Concrete: Concrete must be prepared mechanically to remove surface laitance. Oils, grease or other contaminant must be removed prior to surface preparation. Concrete must be free of curing compounds and form release agents. Surface texture should be similar to 80-100 grit sandpaper or the visual standard, CSP-1 from the International Concrete Repair Institute. The prepared surface should have a nominal tensile strength of 200 psi per ASTM D-4541.

All concrete substrates must be checked for moisture prior to product application using the Plastic Sheet Test, ASTM D-4263.
Additional surface preparation will be required if a 80-100-grit texture is not achieved and the surface laitance not completely removed after the first mechanical preparation procedure.

Mechanical preparation removes laitance, exposing honeycombs or voids beneath the surface that must be filled with Scratch Coat 300. (Refer to separate product bulletin)

APPLICATION SPECIFICATIONS

Substrate temperature for concrete must be between 55ºF and 100ºF.
Relative humidity must not exceed 90%.

Substrate temperature must be 5ºF above the Dew Point.

Application of Sealer 50 in direct sunlight may lead to blistering, pinholes, or wrinkling due to out-gassing of air in the concrete and high substrate temperatures. Double priming, shading or evening application may be required. Consult a Dudick representative.

PRIMING

Primer 67
Concrete: Concrete must always be primed to aid in the “wetting out” required for good bonding. Mix Component A and B for 2-3 minutes and apply with a brush, roller or spray. Do not allow the primer to puddle. Primer 67 should be tack free before sealer is applied.
Important - With all epoxies after priming and before each additional coat, examine the surface for amine blush (oily film). If present, remove by washing with warm water and detergent.

SEALER 50
Mix Sealer 50 Component A separately for approximately 1 minute before adding Component B. Add the pre-measured unit of Component B to Component A and mix thoroughly for 2-3 minutes to achieve a uniform consistency. Apply at a rate of 400-500 sq. ft./gal. Sealer 50 cures tack free in 6-7 hours. It will accept foot traffic in 12 hours, light wheel traffic in 24 hours and forklift traffic and chemical exposure in 72 hours. Allow a minimum of 12 hours before applying additional coats.

CLEANING

Use S-10 Cleaning Solvent to clean tools and equipment.

SHIPPING

Refer to Material Safety Data Sheets.

STORAGE

Warning: All Dudick products classified by DOT with either white, yellow or red labels, must not be mixed or stored together as an explosive reaction may occur.

All products should be stored in a cool, dry area away from open flames, sparks and other hazards. Primer 67 and Sealer 50 are stable for six months when properly stored at 50ºF-75ºF.

Excessive heat may cause premature gelling, reduce working time and shelf life.

Note: Sealer 50 Component B contains aliphatic isocyanates that will react with moisture. Partially used containers should be blanketed with nitrogen and tightly sealed if prolonged storage is anticipated.
SAFETY

M.S.D.S: Material Safety Data Sheets must always be read before using products. Sealer 50 is intended for application by experienced, professional personnel. Dudick, Inc. can supply supervision to help determine that the surface has been properly prepared, the ingredients correctly mixed, and the materials properly and safely applied.

If Sealer 50 is to be applied by your own personnel or by a third party contractor, please be sure that they are aware of the following safety precautions:

- Exposure to resins and hardeners through direct skin contact and/or inhalation may cause severe dermatitis reactions in some people. Cleanliness of the skin and clothing is critical and must be of paramount concern.

- Fumes are flammable and heavier than air. Proper ventilation should be maintained to minimize breathing of concentrated fumes.

- Suitable respirators should be used during application.

- Safety glasses, gloves, and suitable protective clothing must be worn at all times during application.

- If contact with hardeners occurs, remove any clothing involved and flush the skin with flowing water. Discard the clothing. Do not attempt to wash and reuse it. Sealer 50 liquid can be removed with S-10 Cleaning Solvent, MEK or lacquer thinner.

- Keep open flames and sparks away from the area where materials are being mixed and applied.

- If a rash occurs, remove the individual from the work area and seek a physician’s care for dermatitis.

- In case of eye contact, flush with water for at least 15 minutes and consult a physician.

- If swallowed, do not induce vomiting; call a physician immediately.

NOTE: Dudick, Inc. (“Dudick”) warrants all goods of its manufacture to be as represented in its catalogs and that the manufacture of its products by its employees or subcontractors shall be performed in a workmanlike manner. Dudick’s sole obligation under this warranty shall be to replace any material which its examination shall disclose to be defective. Dudick makes no warranty concerning the suitability of its product for application to any surface, it being understood that the goods have been selected and the application ordered by the Purchaser. DUDICK, INC. MAKES NO WARRANTY, EXPRESS OR IMPLIED, THAT THE GOODS SHALL BE MERCHANTABILITY OR THAT THE GOODS ARE FIT FOR ANY PARTICULAR PURPOSE. THE WARRANTY OF REPAIR OR REPLACEMENT SET FORTH HEREIN IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES ARISING BY LAW OR OTHERWISE; AND DUDICK INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, DOWN TIME, DAMAGES TO PROPERTY OF THE PURCHASER OR OTHER PERSONS, OR DAMAGES FOR WHICH THE PURCHASER MAY BE LIABLE TO OTHER PERSONS, WHETHER OR NOT OCCASIONED BY DUDICK’S NEGLIGENCE. This warranty shall not be extended, altered or varied except by written instrument signed by Dudick and Purchaser.

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