



**Dudick inc.**

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**SEALER 35 SD**

**TWO COMPONENT, ALIPHATIC,  
ELECTROSTATIC DISSIPATIVE  
POLYURETHANE SEALER  
COMPLIANT WITH SCAQMD  
VOC RESTRICTIONS**

**FEATURES**

Brush or Roller Apply  
Permanent ESD Stability  
Excellent Color Stability  
Good Stain Resistance  
Good Abrasion Resistance

**TYPICAL APPLICATIONS**

Electronics                      Clean Rooms  
Pharmaceuticals                Data Processing  
Testing Laboratories

**CHEMICAL RESISTANCE**

Water                                Oils  
Solvents                            Gasoline  
Sulfuric Acid - 50%              Jet Fuel  
Sodium Hydroxide - 50%        Skydrol

**COLORS:**

Consult Dudick, Inc., for available colors.

**PHYSICAL PROPERTIES**

Solids by Volume                    69.9%  
Drying Time, 7 mils WFT        12 hours  
Pencil Hardness                    4H  
Impact  
    Direct                            > 160 inch pounds  
    Indirect                          > 160 inch pounds  
Specular Gloss Factor  
ASTM D-523                         50-60  
(may vary with color)

**TYPICAL ELECTRICAL PROPERTIES**

ANSI/ESD S20.20

ESD S 7.1 Surface Resistivity (ohms) @ 12%, 50%  
RH and 73°F

10 Volts                              10<sup>6</sup>- 10<sup>9</sup>  
100 Volts                             10<sup>6</sup>- 10<sup>9</sup>  
500 Volts                              10<sup>6</sup>- 10<sup>9</sup>

ESD STM 97.2 (body voltage generation)  
(Prostat PFM 711-A w/charge plate monitor)  
< 15 volts @ 50±5 % RH

To insure surface resistivity properties, the components of **Sealer 35 SD** must be applied within 30 days of product manufacture. Please refer to storage instructions.

**SPECIFICATIONS**

**Sealer 35 SD** shall be a two-component, aliphatic polyurethane coating applied over repaired and primed concrete as manufactured by Dudick, Inc. Material can be applied by brush or rolled in accordance with the manufacturer's recommended practices.

**Sealer 35 SD** offers the outstanding color stability and resistance to UV degradation known industry wide to be inherent of aliphatic urethane chemistry. Toughness and resistance to impact and staining are also characteristic of Sealer 35 SD.

**ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL**

SQUARE FEET PER GALLON	
CONCRETE	
PRIMER 67	150-200 ft. <sup>2</sup>
Sealer 35 SD	
Theoretical Coverage	225-280 ft. <sup>2</sup> @ 6-7 mils WFT
Actual Coverage	225-280 ft. <sup>2</sup> @ 4-5 mils DFT
S-10 Solvent	500 ft. <sup>2</sup>

\*\*Quantities shown are for estimating purposes only. Actual field usage may vary.

To increase the thickness of this system apply **Polymer Alloy 1000** at desired mil rate after priming; then apply one or two coats of **Sealer 35 SD** for the final finish coat.

**APPLICATION INSTRUCTION**

**SURFACE PREPARATION**

**Concrete:** Concrete must be mechanically prepared 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 minimum 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 50°F and 110°F.

Relative humidity must not exceed 90%.

Substrate temperature must be 5°F above the Dew Point.

Application of **Sealer 35 SD** 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.

**PRIME 67 MIX RATIO (BY VOLUME)**

Component A	1 gallon
Component B	1 gallon

**PRIMER 67 POT LIFE**

TEMPERATURE	POT LIFE
50°F	> 90 min.
75°F	60-70 min.
90°F	30-40 min.

**SEALER 35 SD MIX RATIO (BY VOLUME)**

Component A	1gallons
Component B	40 fl. oz.

**SEALER 35 SD POT LIFE**

TEMPERATURE	POT LIFE
50°F	2 hours
75°F	> 60 min.
90°F	> 45 min.

**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



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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 35 SD

#### *THOROUGHLY MIX COMPONENT A*

**Mix Sealer 35 SD Component A separately for approximately 3 minutes insuring that the bottom of the pail is thoroughly scraped and material is uniformly mixed before adding Component B. Failure to mix Component A thoroughly can produce out of specification ESD readings of final product.**

Add the correct amount of **Component B** to **Component A** and mix thoroughly for 2-3 minutes to achieve a uniform color and consistency. Apply at a rate of 225-280 ft.<sup>2</sup>/gallon **Sealer 35 SD** cures tack free in 4-5 hours.

It will accept foot traffic in 12 hours, light wheel traffic in 24 hours and forklift traffic and chemical exposure in 48 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** is stable for six months when properly stored at 50°F-75°F and **Sealer 35 SD** is stable for thirty-days when properly stored at the same temperatures. Excessive heat may cause premature gelling, reduce working time and shelf life.

**Note:** **Sealer 35 SD 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 35 SD** 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 35 SD** 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 35 SD** 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 sub-contractors 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

MERCHANTABLE 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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