

SEALER 30 SD

**TWO COMPONENT, ALIPHATIC,
ELECTROSTATIC DISSIPATIVE
POLYURETHANE SEALER**

(may vary with color)

FEATURES

Permanent ESD Stability
Excellent Color Stability
Good Stain Resistance
Good Abrasion Resistance
VOC Compliant SCAQMD Rule 1113

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.
ESD additives alter color at the expense of electrical properties.

PHYSICAL PROPERTIES

Solids by Volume	74.9%
Drying Time, 6-8 mils WFT	8 hours
Pencil Hardness	2H
Impact	
Direct	> 160 inch pounds
Indirect	> 160 inch pounds
Specular Gloss Factor	
ASTM D-523	70-80

TYPICAL ELECTRICAL PROPERTIES

ANSI/ESD S20.20

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

10 Volts	$10^6 > < 10^9$
100 Volts	$10^6 > < 10^9$

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

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

SPECIFICATIONS

Sealer 30 SD shall be a two-component, aliphatic polyurethane coating applied over repaired and primed concrete as manufactured by Dudick, Inc. Material shall be applied in accordance with the manufacturer's recommended practices.

Sealer 30 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 30 SD**.

ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL

SQUARE FEET PER GALLON	
CONCRETE	
PRIMER 67LV	150-200 ft ²
Sealer 30SD	
Theoretical Coverage	225-280 ft ² @ 6-7 mils WFT
Actual Coverage	225-280 ft ² @ 4-5 mils DFT
S-10 Solvent	500 ft. ²

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

To increase the thickness of this system apply **Steri-Flor GP** or **Polymer Alloy 1000** at desired mil rate after priming; then apply one or two coats of **Sealer 30 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 250 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 both concrete and metal must be between 50° F/10 ° C and 110° F/43 ° C.

Relative humidity must not exceed 90%.

Substrate temperature must be 5°F/2.77°C above Dew Point.

Application of **Sealer 30 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.

PRIMER 67LV MIX RATIO (BY VOLUME)

Component A 73 fl.oz.
Component B 55 fl.oz.

PRIMER 67LV POT LIFE

TEMPERATURE	POT LIFE
50°F/10°C	90 min.
75°F/24°C	60min.
90°F/32°C	30min.

SEALER 30 SD MIX RATIO (BY VOLUME)

Component A Pre-Measured Unit
Component B Pre-Measured Unit

SEALER 30 SD POT LIFE

SEALER 30 SD

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TEMPERATURE	POT LIFE
50°F/10°C	2 hours
75°F/24°C	> 60 min.
90°F/32°C	> 45 min.

PRIMING

PRIMER 67LV

Concrete: Mix the pre-measured units of **Primer 67LV Component A with Component B**. Prime all concrete surfaces to be coated with **Primer 67LV** at 3-4 mils WFT.

Do not allow the primer to puddle. Epoxy basecoats may be applied over primer that is “tacky”. **Urethane basecoats should be applied only after the Primer 67LV has cured a minimum 24 hours.**

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.

Cure Cycle for Primer 67LV

Temperature	Minimum* Recoat Time	Maximum Recoat Time
50°F	12 hrs.	8 Days
75°F	6-8 hrs.	5 Days
90°F	4-5 hrs.	3 Days

***Minimum recoat time is 24 hours @ 75°F for urethanes**

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THOROUGHLY MIX COMPONENT A

Mix Sealer 30 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 225-280ft² (21-26 m²) per gallon using a notched squeegee and backroll to achieve uniform coverage. Do not dip and roller apply. **Sealer 30 SD** cures tack free in 4-5 hours.

In order to prevent curing problems, thorough and uniform air movement and/or ventilation must be maintained until the system has fully cured. Refer to cure time listed in product data sheet.

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 67LV** is stable for six months when properly stored at 50°F/10°C -75°F/24°C and **Sealer 30 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 30 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 30 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 30 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 30 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.

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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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