



Corporate Offices
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PROTECTO-CRETE 350 SD

SQUEEGEE APPLIED, 100% SOLIDS, SEMI-SELF-LEVELING, STATIC DISSIPATIVE EPOXY FLOOR TOPPING, 55-60 Mils (1.4-1.5 mm)

RECOMMENDED APPLICATIONS

Electronics Manufacturing Laboratories
 Hospital Operating Rooms Clean Rooms
 Computer Facilities

CHEMICAL RESISTANCE

Dilute Organic Acids
 Dilute Inorganic Acids
 Alkali Solutions
 Salts
 Oils
 Some Solvents

TEMPERATURE LIMITS

150°F - Continuous
 250°F - Intermittent

PHYSICAL PROPERTIES

Compressive Strength ASTM C-579	7,850 PSI
Tensile Strength ASTM C-307	1,500 PSI
Tensile Elongation ASTM C-307	2.1%
Shore D Hardness ASTM D-2240	73 – 78
Tensile Bond Strength ASTM D-7234	Cohesive Failure of Concrete
Taber Abrasion ASTM D-4060	79 mg.
Flame Spread ASTM D-635	5 mm
VOC ASTM D-3960	0

To ensure surface resistivity properties, the components of **Protecto-Crete 350 SD** must be applied within 30 days of product manufacture. Please refer to storage instructions.

ELECTRICAL PROPERTIES

Surface Resistivity
 ohms/square @ 12%, 50% RH
 @ 73 °F, ESD-S7.1-1994
 10 Volts 10⁶- 10⁹
 100 Volts
 500 Volts

10⁶- 10⁹
 10⁶- 10⁹

Electronic Decay Time:
 EIA - 541, Mil-B-81705C
 12%, 50% RH @ 73 °F.

Dissipates a 5000
 volt charge in less
 than 0.1 second

Specular Gloss Factor
 ASTM D-523

40-60 (may vary with color)

COLORS

Black
 Dark Grey

*Contact a Dudick representative for other color selections.

SPECIFICATIONS

Protecto-Crete 350 SD shall be a 55-60 mil, 100% solids, semi-self-leveling, static dissipative epoxy floor topping, applied over a static dissipative primer as manufactured by Dudick, Inc. Application shall be according to the manufacturer's recommendations.

THE PROTECTO-CRETE 350 SD SYSTEM

Protecto-Crete 350 SD uses a semi-self-leveling topcoat, filled with static dissipative elements to produce a smooth, static dissipative surface. This monolithic topping is specifically designed to dissipate static electrical charges, which are commonly produced by friction associated with walking across a floor while not being grounded.

Primer 67 SD: The blasted concrete surface must be primed to provide the "wetting out" required for good

bonding. Ground cord connectors are adhered with the static dissipative primer while it is still wet.

Topcoat: The filled epoxy topcoat is applied using a squeegee, notched trowel, or gauge rake to assure total coverage of the concrete substrate. When cured, the monolithic topping exhibits excellent chemical resistance as well as static dissipative properties.

ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL

SQUARE FEET PER GALLON		
	CONCRETE	
PRIMER 67 SD	100-150 ft. ²	5 mils WFT
Topcoat	115-120 ft. ² / 5 gallon unit	55-60 mils
Ground Connectors	1/1000 ft. ²	_____
S-10 Solvent	500 ft. ²	Clean-up

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

APPLICATION INSTRUCTIONS

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 40-60 grit sandpaper or the visual standard, CSP-5 from the International Concrete Repair Institute **with exposed pea gravel**. The prepared surface should have a minimum tensile strength of 250 PSI per ASTM D-7243.

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 40-60 grit texture is not achieved and the surface laitance not completely removed after the mechanical preparation procedure.

Abrasive blasting removes laitance, exposing honeycombs or voids beneath the surface which must be filled with **Scratch-Coat 300**. (Refer to separate product bulletin.)

APPLICATION SPECIFICATIONS

Temperature of concrete substrate must be between 50°F and 110°F.

Relative humidity must not exceed 90%.

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

PRIMER 67 SD MIX RATIO (BY VOLUME)

Component A 1 gallon
Component B 41fl. oz.

PRIMER 67 SD POT LIFE

TEMPERATURE	POT LIFE
50 ⁰ F	90 min.
75 ⁰ F	60 min.
90 ⁰ F	30 min.

Pot Life and Thin Film cure time at 75⁰F can be decreased by the addition of Accelerator #1 as follows:

Fluid Ozs. #1 Per Mixed Gal.	Pot Life (Minutes)	Thin Film Cure
1-2	12	< 3 Hours
3-4	8	2 Hours

PRIMING

The following Primers are compatible with **Protecto-Crete 350 SD**: Primer 67, Primer 67LV, Primer 67DPLV, Primer 67DTO & Primer 60.

PROTECTO-CRETE 350 SD MIX RATIO:

*One mixed unit yields 5 gallons

Component A 25 lbs.
Component B 8 lbs., 6 ozs.
Filler 31 lbs., 4 ozs.

*Premeasured units – Do Not Breakdown

Pot Life of the mixed **Protecto-Crete 350 SD** will depend on the temperature. To prevent material waste and avoid damage to equipment, do not mix more material than can be used according to the following table:

POT LIFE AND CURE CYCLES

Protecto-Crete 350 SD		
Temperature	Pot Life	Cure Time
50 ⁰ F	40-50 min.	72 hrs.
75 ⁰ F	30-40 min.	24 hrs.
90 ⁰ F	20-30 min.	20 hrs.



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Do not attempt to store mixed material. Residual material should be properly disposed of at the end of each work period.

Application of **Protecto-Crete 350 SD** in direct sunlight may lead to blistering, pinholes, or wrinkling due to outgassing of air in the concrete and high substrate temperatures. Double priming, shading or evening application may be required. Consult a Dudick representative.

TOPCOAT

Allow the primer to cure "tack free" before applying the topcoat.

Prior to adding **Component B**, mix **Component A** for 1-2 minutes to assure that any pigment or filler which may have settled to the bottom is re-dispersed, until a uniform color is achieved. Combine the A and B components and stir mechanically for approximately 2-3 minutes. Thoroughly scrape the sides and the bottom of the container and re-mix for another 30 seconds to achieve a uniform color and consistency.

Gradually add the filler and continue mixing until all of the sand is completely wet out, for approximately one minute.

Pour the mixed material onto the primed substrate and spread with a notched trowel or gauge rake to a nominal thickness of 55-60 mils. The gauge rake is preferred.

To ensure proper leveling of the **Protecto-Crete 350 SD**, back-roll the topping using a ten-inch spiked roller.

Be sure that all ground cord connectors are covered by the Protecto-Crete 350 SD topcoat; the snap connection must be exposed so that the ground cord can be attached later.

Allow **Protecto-Crete 350 SD** to cure overnight before subjecting the area to foot traffic. Allow 24 hours at 75°F before permitting truck traffic.

CLEANING

Use **S-10 Cleaning Solvent** to clean tools and equipment. **DO NOT USE ACETONE.**

SHIPPING

Refer to Material Safety Data Sheets.

STORAGE

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

Store all products in a cool, dry area away from open flames, sparks or other hazards.

When stored in their original, unopened containers, the following shelf life periods will apply: **Primer 67 SD** and **Protecto-Crete 350SD** components will have a thirty-day shelf life. Storage in direct sunlight or excessive heat will reduce working time.

SAFETY

M.S.D.S: Material Safety Data Sheets must always be read before using products. Protecto-Crete 350 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 **Protecto-Crete 350 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. **Protecto-Crete 350 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.

warranty shall not be extended, altered or varied except by written instrument signed by Dudick and Purchaser.

5/24/18

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 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