



**Dudick inc.**

Corporate Offices  
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**PROTECTO-CRETE 1130SF**

**SQUEEGEE APPLIED, SEMI-SELF LEVELING, MULTI-FUNCTIONAL, HIGH PERFORMANCE, 100% SOLIDS, EPOXY FLOOR TOPPING 1/16" (1.6 mm) - 1/8" (3.2 mm)**

**FEATURES**

Meets all VOC Requirements  
Low Odor  
Low Temperature Cure  
Excellent Solvent Resistance

**RECOMMENDED APPLICATIONS**

Secondary Containment Areas  
Aisleways  
Solvent Storage Areas  
Chemical Process Areas  
Tank Farms

**CHEMICAL RESISTANCE**

Dilute Inorganic Acids                      Salts  
Alkali Solutions                                Oils  
Solvents (including Methylene  
Chloride and Ethylene Dichloride)

**TEMPERATURE LIMITS**

150°F- Continuous  
250°F - Intermittent

**COLORS:** this product is only offered in RED. Contact a Dudick representative for other colors.

**PHYSICAL PROPERTIES**

Compressive Strength                      13,000 PSI  
    ASTM C-579  
Tensile Strength                                3,200 PSI  
    ASTM C-307  
Flexural Strength                                4,800 PSI  
    ASTM C-580  
Tensile Bond Strength                        Cohesive Failure  
    of Concrete  
    ASTM D-4541

Taber Abrasion                                51 mg.  
    ASTM D-4060  
Flame Spread                                    5mm  
    ASTM D-635  
VOC    0  
    ASTM D-3960

**SPECIFICATIONS**

**Protecto-Crete 1130SF** shall be a three component, semi-self leveling, multifunctional, 100% solids, epoxy floor topping as manufactured by Dudick, Inc. Application shall be according to the manufacturer's recommendations.

**THE PROTECTO-CRETE 1130SF SYSTEM**

**Protecto-Crete 1130SF** uses a primer and one or more layers of polymer alloy epoxy resin with a broadcast of sand or aluminum oxide to achieve a strongly bonded monolithic topping with excellent physical and mechanical strength and chemical resistance.

**Primer 67:** The blasted or etched concrete surface must be primed to provide the "wetting out" required for good bonding. **Protecto-Crete 1130SF** should be applied while the primer is still tacky.

**Basecoat:** The sand or aluminum oxide-filled **Protecto-Crete 1130SF** basecoat develops a cured strength 2-3 times that of the concrete base to which it is applied to provide exceptional durability and prolong the life of the substrate.

**Broadcast:** Sand or aluminum oxide is used for strength and surface texture; aluminum oxide provides additional chemical and abrasion resistance. Either material is broadcasted to complete saturation and the excess removed by sweeping.

**Optional Protecto-Coat 1130:** For increased resistance to chemicals and solvents, and reduced surface texture, the topping can be sealed with a roller applied 20-mil thickness of **Protecto-Coat 1130**. (Refer to separate product bulletin)

**ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL**

APPROXIMATE SQUARE FEET PER GALLON	
CONCRETE	
PRIMER 67	150-200 ft. <sup>2</sup>
Protecto-Crete 1130SF	
Basecoat	45-50 ft. <sup>2</sup>
Aluminum Oxide	50 ft. <sup>2</sup> / 50 lbs.
Sand	66 ft. <sup>2</sup> / 50 lbs.
Optional Protecto-Coat 1130	60-80 ft. <sup>2</sup> @ 15-20 mils
S-10 Solvent	500 ft. <sup>2</sup>

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

**APPLICATION INSTRUCTIONS**

**SURFACE PREPARATION**

**Concrete:** Concrete must be prepared mechanically to remove surface laitance. Oils, grease and 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 nominal 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 40-60 grit texture **with exposed pea gravel** is not achieved and the surface laitance not completely removed with 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**

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 MIX RATIO**

Component A 1 gallon  
Component B 1 gallon

**PRIMER 67 POT LIFE**

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

**PRIMING**

**Concrete:** Mix the pre-measured units of **Component A with Component B**. Prime all concrete surfaces with **Primer 67** at 3-4 mils WFT. The basecoat may be applied over primer that is “tacky”. Do not allow the primer to puddle.

**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.

Pot Life of the mixed **Protecto-Crete 1130SF** 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:

*In view of the short pot life it is recommended that the material be cooled either by refrigeration or icing down to 50°F. This material will cure down to 38°F in 72 hours.*

*Mixed material is exothermic and develops high temperatures in mass. It is recommended that a pail of water be accessible to put residual mixed material into if not totally used.*

*If cooling is not possible, small batches of mixed material must be used to work within the pot life limitations.*



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*Catalyzed material must never be left unattended, as it will react violently emitting fumes and smoke.*

**PROTECTO-CRETE 1130SF  
POT LIFE AND CURE CYCLES**

TEMPERATURE	POT LIFE	CURE TIME
50°F	20 min.	72 hrs.
75°F	15 min.	24 hrs.
90°F	10 min.	20 hrs.

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

**Protecto-Crete 1130SF Mix Ratio**

Component A 1 gallon  
Component B 21 fl. oz.

**Optional: Protecto-Coat 1130 Mix Ratio**

Component A 1 gallon  
Component B 44 fl. oz.

**BASECOAT**

Prior to adding the **Component B**, mix **Component A** for 1-2 minutes to assure that any pigment or filler that may have settled to the bottom is redispersed until a uniform color is achieved. Add the correct amount of **Component B** to 1 gallon of **Component A** and mix thoroughly for 2-3 minutes. Immediately after applying the material to the proper thickness, use a porcupine roller to level and deaerate the topping. Broadcast 20-40-mesh sand or aluminum oxide into the wet basecoat to complete saturation. Once cured, remove excess with a broom. This will produce a 1/16" thick topping. If additional thickness is specified, repeat the above steps.

When a 1/8" thickness is required, it is recommended that the application be done in two successive layers. Using two seed coats assures greater uniformity in both thickness as well as aesthetic quality.

At 75°F, **Protecto-Crete 1130SF** will permit foot traffic in 6 hours and full chemical service in 24 hours.

**OPTIONAL PROTECTO-COAT 1130**

Prior to adding the **Component B**, mix each component separately for 1-2 minutes to redisperse any pigments or fillers that have settled.

Add the correct amount of **Component B** and mix until a uniform color is achieved.

Using a short nap roller apply evenly to a 15-20 mil WFT.

**Reference the pot life chart and strictly observe all recommendations. This is an extremely reactive system.**

Application of **Protecto-Crete 1130SF** 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.

**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.

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

When stored in their original, unopened containers at 50°F-75°F, the following shelf life periods will apply: **Primer 67 Component A and B** six months, **Protecto-Crete 1130SF** and **Protecto-Coat 1130 Component A** six-weeks, **Protecto-Crete 1130SF** and **Protecto-Coat 1130 Component B** six months.

*The shelf life of the 1130 Component A, stored beyond 6 weeks @ 75°F is not predictable. This material is best stored @ 50°F or lower.*

*Storage in direct sunlight or excessive heat is not recommended! Self-Polymerization can quickly occur at temperatures as low as 100°F.*

## SAFETY

**M.S.D.S: Material Safety Data Sheets must always be read before using products. Protecto-Crete 1130SF** systems are 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 1130SF** materials are to be applied by your own personnel or by a third party or 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 1130SF** 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.

3/26/10