



Dudick inc.

Corporate Offices
1818 Miller Parkway
Streetsboro, OH 44241
330-562-1970
330-562-7638 FAX
www.dudick.com

POLYMER ALLOY 2000 SD

**100% SOLIDS, STATIC DISSIPATIVE,
MULTI-FUNCTIONAL, SEMI-SELF
LEVELING EPOXY FLOOR TOPPING,
15-50 MILS (0.39-1.3 mm)**

FEATURES

Meets all VOC requirements.

Static dissipative.

Semi-self leveling to a high-gloss finish at 15 mils.

Stain resistant with good cleanability.

Can saturate fiberglass reinforcement for better crack bridging properties.

RECOMMENDED APPLICATIONS

- Food Processing Floors
- Laboratories
- Pharmaceutical Plants
- Waste Water Treatment Facilities
- Aisleways
- Laboratories
- Printed Circuit Board Facilities

CHEMICAL RESISTANCE

- | | |
|----------------------------|----------------|
| Dilute Inorganic Acids | Mineral Oils |
| Dilute Alkali Solutions | Salt Solutions |
| Aliphatic Organic Solvents | |

PHYSICAL PROPERTIES

- | | |
|------------------------------------|-----------|
| Compressive Strength
ASTM C-579 | 6,000 PSI |
| Tensile Strength
ASTM C-307 | 2,200 PSI |
| Tensile Elongation
ASTM C-307 | 15 – 20% |
| Flexural Strength
ASTM C-580 | 1,800 PSI |
| Taber Abrasion
ASTM D-4060 | 69 mg |
| Flame Spread
ASTM D-635 | < 5 mm |

- | | |
|--|--|
| Shore D Hardness
ASTM D-2240 | 65 - 70 |
| VOC
ASTM D-3960 | 0 |
| Tensile Bond Strength
ASTM D-4541 | Cohesive Failure
of Concrete |
| Resistivity
ASTM F150-89
NFPA 99 Test Method | 10 ⁶ – 10 ⁹ Ohms |

To insure surface resistivity properties, the components of **Polymer Alloy 2000 SD** must be applied within 30 days of product manufacture. Please refer to storage instructions.

SPECIFICATIONS

Polymer Alloy 2000 SD shall be a minimum 15 mils thick, semi-self leveling, 100% solids, multi-functional epoxy floor material as manufactured by Dudick, Inc. It is applied in accordance with the manufacturer’s recommended practices.

THE POLYMER ALLOY 2000 SD SYSTEM

Polymer Alloy 2000 SD uses a moisture-tolerant, static dissipative primer and a flexible, semi-self leveling topcoat to achieve a strongly bonded monolithic topping with moderate chemical resistance, good physical and mechanical properties and static discharge ability.

Primer 67 SD: The blasted or etched concrete surface must be primed to provide the “wetting out” required for good bonding. Priming is achieved with **Primer 67 SD** and **Polymer Alloy 2000 SD** can be applied while the primer is still tacky. **Do not allow the primer to puddle.**

Topcoat: The semi-self-leveling **Polymer Alloy 2000 SD** 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.

**ESTIMATING QUANTITIES AND ORDER
BILL OF MATERIAL**

APPROXIMATE SQUARE FEET PER GALLON	
CONCRETE	
Primer 67 SD	100-150 ft. ²
POLYMER ALLOY 2000 SD	
Topcoat, 15 Mils	105 ft. ²
S-10 Solvent	500 ft. ²

*Quantities shown are for estimating purposes only. Actual field usage may vary. Consult Dudick, Inc. for coverage rates on Broadcast version.

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 60-80 grit sandpaper or the visual standard, CSP-3 from the International Concrete Repair Institute. The prepared surface should have a nominal tensile strength of 225 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 after a single application of acid or with the first mechanical preparation procedure.

Abrasive blasting 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 SD MIX RATIO (BY VOLUME)

Component A 1 gallon
Component B 41 fl. oz.

PRIMER 67 SD POT LIFE

Temperature	Pot Life
50°F	90 min.
75°F	60 min.
90°F	30 min.

PRIMING

Concrete: Concrete must always be primed to aid in the “wetting-out” required for good bonding. Mix **Primer 67 SD Component A and B** for 2-3 minutes and apply with a roller at 3-4 mils, WFT. **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.

POLYMER ALLOY 2000 SD MIX RATIO (BY VOLUME)

Component A 1 gallon
Component B 89 fl.oz.

TOPCOAT

For application at thicknesses of 15-20 mils, 5 fluid ounces of xylene per mixed gallon must be added to the topcoat to obtain good application properties.

Prior to adding **Component B**, mix **Polymer Alloy 2000 SD Component A** for 1-2 minutes to assure that any pigment or filler that may have settled is re-dispersed so that a uniform color is achieved. Combine the **A and B Components** and stir mechanically for approximately 2-3 minutes to achieve a uniform color and consistency. Pour the **Polymer Alloy 2000 SD** mix directly onto the primed concrete.

At thicknesses of 15-20 mils, the material can be applied with a short nap roller. At thicknesses of 20-50 mils the material can be applied with a gauge rake. After spreading this material to its proper thickness, roll with a porcupine roller to level and deaerate.



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To terminate work, use duct tape to set a straight edge and remove the tape when the topping becomes lightly tacky. Start the next work period butting into this area. Permanent terminating lines should be made into the sawcuts in the concrete.

Pot Life And Cure Cycles:

Polymer Alloy 2000 SD		
Temperature	Pot Life	Cure Time
50°F	50-60 min.	72 hrs.
75°F	30-40 min.	24 hrs.
90°F	20-30 min.	20 hrs.

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

Application of **Polymer Alloy 2000 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.

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 can occur.

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

When stored in their original, unopened containers, **Prime 67 SD** and **Polymer Alloy 2000 SD** 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. Polymer Alloy 2000 SD materials 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 **Polymer Alloy 2000 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. **Polymer Alloy 2000 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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