



Dudick inc.

Corporate Offices
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www.dudick.com

POLYMER ALLOY 2000C

**100% SOLIDS, MULTI-FUNCTIONAL,
CONDUCTIVE SEMI-SELF LEVELING
EPOXY FLOOR TOPPING, 20-50 MILS.**

FEATURES

Meets all VOC Requirements
Conductive
Low Odor
Semi-Self Leveling to a High-Gloss Finish at 20 Mils
Stain Resistant with Good Cleanability.
Conductive Anti-Skid Available using **EA-2 Aggregate.**

RECOMMENDED APPLICATIONS

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

CHEMICAL RESISTANCE

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

COLORS: Black, Blue, Red, Grey, Green

PHYSICAL PROPERTIES

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

Shore D Hardness 65-70
ASTM D-2240
VOC 0
ASTM D-3960
Tensile Bond Strength Cohesive Failure
ASTM D-4541 of Concrete
Resistivity 2.5x10⁴ - 1.0x10⁶ Ohms
ASTM F-150
NFPA #99

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

SPECIFICATIONS

Polymer Alloy 2000C shall be a 20 mils thick, semi-self leveling, 100% solids multi-functional epoxy floor material as manufactured by Dudick, Inc. It is applied by gauge rake in accordance with the manufacturer's recommended practices.

THE POLYMER ALLOY 2000 C SYSTEM

Polymer Alloy 2000C uses a moisture-tolerant conductive 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 properties.

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

Topcoat: The semi-self-leveling **Polymer Alloy 2000C** 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

SQUARE FEET PER GALLON	
CONCRETE	
Primer 67C	100-150 ft. ²
Polymer Alloy 2000C	
Topcoat	80 ft. ²
S-10 Solvent	500 ft. ²

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

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Concrete: Concrete must be abrasive blasted or etched with muriatic acid (Solution of 1 part 20° Be HCL and 1 part water) to remove surface laitance and other contaminants. Concrete must be dry and free of curing compounds and form release agents. Surface texture should be similar to 40-60 grit sandpaper **with exposed pea gravel**. 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 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 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 67C MIX RATIO (BY VOLUME)

Component A 1 gallon
Component B 29 fl. oz.

PRIMER 67C 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 67C 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 2000C MIX RATIO (BY VOLUME)

Component A 1 gallon
Component B 89 fl. oz.

TOPCOAT

Prior to adding **Component B**, mix **Polymer Alloy 2000C Component A** for 1-2 minutes to assure that any pigment or filler which may have settled is redispersed so that a uniform color is achieved. Combine the **A and B Components** and stir mechanically for approximately 2-3 minutes.

Thoroughly scrape the sides and bottom of the container and remix for another 30 seconds to achieve a uniform color and consistency. Pour the **Polymer Alloy 2000 C** mix directly onto the primed concrete.

The mix should be spread to a 20 mil thickness with a serrated squeegee, notched trowel or gauge rake. The gauge rake is preferred. After spreading the material to the proper thickness, roll with a porcupine roller to level and deaerate the material.

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



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Pot Life And Cure Cycles:

POLYMER ALLOY 2000 C		
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 2000C** 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, the following shelf life periods will apply: **Primer 67 C** and **Polymer Alloy 2000 C** components will have 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 2000C** 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 2000C** 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 2000C** 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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