Dudick inc.

Corporate Offices
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POLYMER ALLOY 1200

High Build Floor System
12-15 mils

FEATURES

High Gloss or Satin Finish at 15 mils
Can be Seeded for Anti-Skid
Stain Resistant with Good Clean ability

RECOMMENDED APPLICATIONS

Component Assembly Areas
Laboratories
Pharmaceutical Plants
Aisle ways
Printed Circuit Board Facilities
Production Work Stations

CHEMICAL RESISTANCE

Dilute Inorganic Acids
Aliphatic Hydrocarbons
Sodium Hydroxide
Salt & Brine Solutions
Mineral Oils

COLORS: Standard Color Chart available upon request.

TYPICAL PHYSICAL PROPERTIES

Tabor Abrasion ASTM D-4060	18 mg.
Tensile Elongation ASTM C-307	10%
Tensile Bond Strength ASTM D-4541	Cohesive Failure of Concrete
Pencil Hardness ASTM D-3363	2H-3H
Coefficient of Friction ASTM C-1028	Dry (.82) Wet (.83)

SPECIFICATIONS

Polymer Alloy 1200 shall be a high build floor system applied at 12-15 mils as manufactured by Dudick, Inc. Materials shall be applied by roller in accordance with the manufacturer's recommended practices.

THE POLYMER ALLOY 1200 SYSTEM

Polymer Alloy 1200 uses a moisture-tolerant primer and one coat of low odor epoxy resin and a urethane topcoat.

Primer 67 is designed to aid in the "wetting out" required for good bonding to the concrete surface.

Polymer Alloy 1200 Body coat: This 100% solids epoxy body coat provide thickness and film integrity to the system.

Polymer Alloy 1200 Topcoat is a two component aliphatic urethane that provides excellent wear and chemical resistance as well as superior UV stability.

ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL

SQUARE FEET PER GALLON CONCRETE	
Primer 67	250-300 ft.²
Polymer Alloy 1200	
Bodycoat	150 ft.² at 8-10 mils
Topcoat	300-400 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 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 60-80 grit texture 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 which must be filled with **Scratch Coat 300**. (Refer to separate product bulletin)

APPLICATION SPECIFICATIONS

Substrate temperature for both concrete and metal must be between 50ºF and 110ºF.

Relative humidity must not exceed 90%.

Substrate temperature must be 5ºF above the Dew Point.

PRIMER 67MIX RATIO (BY VOLUME)

Component A	1 gallon
Component B	1 gallon

Primer 67 Pot Life

TEMPERATURE	PRIMER
50ºF	90 min.
75ºF	60 min.
90ºF	30 min.

Concrete: Mix the pre-measured units of **Component A with Component B.** Prime all concrete surfaces to be coated 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 1200 BODYCOAT MIX RATIO (BY VOLUME)

Component A	1 gallon
Component B	67 fl. oz.

Then, add the correct amount of **Component B** to **Component A** and mix thoroughly until a uniform color is achieved.

Apply at the recommended thickness using a roller.

Pot life of the mixed **Polymer Alloy 1200 Bodycoat** 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:

TEMPERATURE	POT LIFE
50ºF	50 min.
75ºF	35 min.
90ºF	20 min.

POLYMER ALLOY 1200 BODYCOAT CURE CYCLE:

TEMPERATURE SUBSTRATE	RECOAT TIME		CURE TIME
	MIN.	MAX.	
50ºF	30-35 hrs.	120 hrs.	96 hrs.
75ºF	16 hrs.	72 hrs.	24 hrs.
90ºF	10-12 hrs.	48 hrs.	20hrs.

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

POLYMER ALLOY 1200 TOPCOAT MIX RATIO (BY VOLUME)

(CLEAR GLOSS)

Component A	1 gallon
Component B	65 fl. oz.

(PIGMENTED)

Component A	1 gallon
Component B	58 fl. oz.

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TOPCOAT POT LIFE

TEMPERATURE	POT LIFE
50ºF	2 hours
75ºF	> 60 min.
90ºF	> 45 min.

TOPCOAT

Mix **Component A** separately for approximately 1 minute before adding **Component B.** 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 300 sq. ft. per gallon. The topcoat cures tack free in 4-5 hours. 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.

Application of **Polymer Alloy 1200** in direct sunlight may lead to blistering, pinholes, or wrinkling due to out-gassing of air in 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 white, yellow or red labels must not be mixed or stored together as an explosive reaction can occur.

All products should be stored in a cool, dry area, away from open flames, sparks, or other hazards.

When properly stored in their original, unopened containers at 50°F – 75°F, **Primer 67** and **Polymer Alloy 1200** components will have a six-month shelf life. Storage in direct sunlight or excessive heat will reduce working time and shelf life.

SAFETY

M.S.D.S: Material Safety Data Sheets must always be read before using products. Polymer Alloy 1200 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 **Polymer Alloy 1200** materials are 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 1200** liquids 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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