



Dudick inc.

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POLYMER ALLOY 1200/1200SF
HIGH BUILD FLOOR SYSTEM
12-15 MILS OR 1/16”-1/8” SEEDED
FLOOR SYSTEM

FEATURES

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

Taber Abrasion ASTM D-4060	18 mg.
Tensile Elongation ASTM C-307	10%
Tensile Bond Strength ASTM D-7234	Cohesive Failure of Concrete
Pencil Hardness	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 Materials shall be applied by roller

in accordance with the manufacturer’s recommended practices.

Polymer Alloy 1200SF shall be a 1/16”-1/8” thick, high build epoxy floor system.

Both products are manufactured by Dudick, Inc. and applied in accordance with the manufacturer’s recommendations.

THE POLYMER ALLOY 1200 SYSTEM

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

Primer is to aid in the 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.

Optional Sealer provides excellent wear and chemical resistance as well as superior UV stability.

THE POLYMER ALLOY 1200SF SYSTEM

Polymer Alloy 1200SF uses a moisture-tolerant primer, sand or aluminum oxide broadcast and epoxy resin to achieve a strongly bonded monolithic topping with moderate chemical resistance and good physical and mechanical properties.

The following Primers are compatible with **Polymer Alloy 1200/1200SF**: Primer 67, Primer 67LV, Primer 67DPLV, Primer 67DTO & Primer 60.

Basecoat: The sand or aluminum oxide filled **Polymer Alloy 1200SF** 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 non-slip texture; aluminum oxide provides additional chemical and abrasion resistance. Either material is broadcasted to complete saturation, and the excess removed by sweeping.

Topcoat: Seal with the **Polymer Alloy 1200SF** resin system @ 12-15 mils.

Optional Sealers: If enhanced scuff and scratch resistance is desired, optional urethane sealers are available. Consult Dudick, Inc.

ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL

SQUARE FEET PER GALLON	
CONCRETE	
Primer	250-300 ft. ²
Polymer Alloy 1200	
Bodycoat	150 ft. ² @ 8-10 mils
S-10 Solvent	500 ft. ²

APPROXIMATE SQUARE FEET PER GALLON	
CONCRETE	
Primer	250-300 ft. ²
Polymer Alloy 1200SF	
Bodycoat @ 8-10 mils	150 ft. ²
S-10 Solvent	500 ft. ²
Aluminum Oxide	1/2 – 3/4 lbs./ft. ²
20-40 Mesh Sand	1/4- 1/2 lbs./ft. ²
Topcoat @ 12-15 mils	130-150 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 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 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 50°F and 110°F.

Relative humidity must not exceed 90%.

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

PRIMING

The following Primers are compatible with **Polymer Alloy 1200/1200SF**: Primer 67, Primer 67LV, Primer 67DPLV, Primer 67DTO & Primer 60.

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
50°F	50 min.
75°F	35 min.
90°F	20 min.

When properly stored in their original, unopened containers at 50°F – 75°F, **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.

5/29/18