

**PEDESTRIAN TRAFFIC COATINGS
POLYDECK 160**

NOT FOR USE AS A CONSTRUCTION DOCUMENT. Carefully edit this guide specification to coordinate with your specific project requirements.

GENERAL: SECTION INCLUDES

- A. Liquid applied pedestrian coating system [s] on concrete and wood surfaces.

RELATED SECTIONS

- A. Cast-in-Place Concrete.
- B. Precast Concrete.
- C. Concrete Cleaning and Preparation for Cold Liquid Applied Coatings.
- D. Prefabricated Expansion Joints.
- E. Joint Sealers.

SYSTEM DESCRIPTION

- A. Polycoat Products, Polydeck 160 Pedestrian Deck System utilizes a two component basecoat.
- B. Elastomeric urethane coating providing a continuous, seamless waterproofing membrane resistant to pedestrian traffic.
- C. Pedestrian systems are used in mechanical rooms, penthouses, mezzanines, plazas, entrances, walkways and other pedestrian traffic areas
- D. Two (2) Coat System: One (1) waterproofing base coat, and one (1) topcoat with white rubber aggregate (see optional sand aggregate installation in technical bulletin) broadcast into the first basecoat, concrete surfaces require primer. Second topcoat maybe necessary in wet or damp climates.
- E. Optional Three (3) coat system using sand.

SUBMITTALS

- A. Submit two (2) samples of each coating system(s), applied to 1/4-inch (6.4 mm) plywood or similar rigid base.
- B. Submit two (2) copies of manufacturer's literature for all products furnished, including ICBO Evaluation, application instructions, appropriate Material Safety Data Sheets (MSDS) and other safety requirements.
- C. Submit a copy of letter stating "Preferred Applicator Status" issued to applicator by manufacturer.
- D. Prior to start of work required by this Section, contractor/applicator will submit to Polycoat Products a written request for a warranty: identify with project name, location and date, type of coating system to be applied, and surface to which system is being applied, including sketches where necessary.

QUALITY ASSURANCE

- A. Waterproofing material manufacturer: A company specializing in waterproof membranes with twenty (20) years' experience.
- B. Product will have been in use for no less than five (5) years.

- C. Applicator: A company specializing in performing the work of this section with a minimum of five (5) years (documented) experience.
- D. Field sample: Install sample(s) of product(s) to be applied at project site. Sample(s) shall be representative of installed system. Sample(s) is (are) to be approved by [architect/engineer] [owners representative]. Leave sample(s) at job site for reference during project.

REQUIREMENTS

- A. The "dry" film mil thickness of the specified system is 60 mils. Selected manufacturer must provide the mil thickness as specified regardless of the manufacturers approved system mil thickness.

MOCKUP

- A. Provide a mockup of the waterproofing system.
- B. Install mockup of product(s) to be applied at project site. Sample(s) shall be representative of installed system (i.e. internal and external corners, jointing, flashing and control/expansion joints).
- C. Mockup may remain as part of the work.

DELIVERY, STORAGE AND HANDLING

- A. Refer to manufacturer's recommendations for storage and handling instructions.
- B. Deliver materials to job site in sealed, undamaged containers with labels intact and legible, indicating material name, date of manufacture and lot number.
- C. Store materials covered at temperatures not exceeding 90 degrees Fahrenheit (32 degrees Celsius).

PROJECT CONDITIONS

- A. Install materials in accordance with all safety and weather conditions required in manufacturer's written application instructions or as modified by applicable rules and regulations of local, state and federal authorities having jurisdiction.
- B. See manufacturer's recommendations for health & safety precautions.
- C. Seal openings that will allow vapors to migrate into occupied spaces (i.e. doors, windows, air intakes, and elevators).
- D. Ventilate interior and exterior application areas and occupied spaces adjacent to application areas during application and for a minimum of 24 hours after application.

Inspection of the job site before work begins and periodic air monitoring during and after application may be necessary to determine ventilation requirements according to U.S. Occupational Safety and Health Administration.

- E. Weather/Curing Conditions:
 - 1. Do not apply coating if rain is anticipated within 8 hours of application.
 - 2. Contact Polycoat Products if air temperatures are lower than 20 degrees Fahrenheit or higher than 90 degrees Fahrenheit prior to starting project.
 - 3. Cure times specified are based on curing coating at 77 degrees Fahrenheit (25 degrees Celsius) and 50 percent relative humidity. Lower temperatures and humidity will could extend curing time.

WARRANTY

Upon completion, on a single document, provide a copy of written warranty, from manufacturer against defects of materials, for a period of 1 year, beginning with date of substantial completion of deck coating system.

PRODUCTS/MANUFACTURER

Polycoat Products, A Division of American Polymers Corporation, 14722 Spring Avenue, Santa Fe Springs, CA 90670, USA • (562) 802-8834 • FAX (562) 921-7363 • <http://www.polycoatusa.com>.

MATERIALS

Polycoat Products: Pedestrian Deck System, Polydeck 160.

The following list of accessories may be edited. Some items may not be required for specific project conditions.

ACCESSORIES

- A. Primers: Polyprime 21,U22, U25 or 2180 on concrete, primer is optional on new plywood and 2180 on metals.
- B. Backer Rod: Closed cell polyethylene foam.
- C. Sealant: Polyurethane.
- D. Flashing Reinforcement: 4" Straight Jacket Tape an uncoated fiberglass mesh.
- E. Detail Coat: PC260 base coat by Polycoat Products.
- F. Aggregate: White Rubber Aggregate or 20/30 mesh sand (see optional sand installation).
- G. Cleaning Agents: Toluene or Xylene (alcohol free) - use in accordance with manufacturer's instructions. Use only if permitted by local jurisdiction.

EXECUTION/EXAMINATION

The following conditions must not be coated with Polycoat Products deck coating systems: on-grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool decks, swimming pools or lightweight concrete. Asphalt surfaces or asphalt overlays. Concrete must exhibit 3000-psi minimum. Concrete surfaces to be coated must be trowel finished in compliance with American Concrete Institute (except that hand troweling is not required). Followed by a fine hair brooming, left free of loose particles, and shall be without ridges, projections, voids and concrete droppings that would be mechanically detrimental to coating application or function.

- A. Prior to installation refer to manufacturer's literature (i.e. general information, specifications, and technical bulletins) for specific instructions.
- B. Before coating is applied, inspect slab to receive coating. Surface must be free of voids, laitance, and loose material on surface, grease, oil, rust and other contaminants that will affect its bond.
- C. Inspect slab for variations in surface finish, joint offsets and other defects that may adversely affect coating application or performance.
- D. Concrete surfaces must be visibly dry and pass a 16 hour (ASTM D-4263) rubber mat test (no condensation) prior to application of coating system.
- E. Verify that curing methods used for concrete is compatible with requirements for coating system.
- F. Commencement of coating installation by contractor or subcontractor implies acceptance of slab as suitable to accept coating system.

PREPARATION

- A. Prepare surfaces in accordance with manufacturers written instructions.

- B. Protect: adjacent surfaces with drop cloths and tape, as needed, to control dust and overspray.
- C. Clean: surfaces to receive coating materials.
 1. Remove oil and grease with a commercial grade alkaline cleaner; thoroughly rinse and dry.
 2. Prepare concrete surfaces by sandblasting or shot blasting. New concrete only (minimum cure time 28 days).
 3. Sweep, blow or vacuum surfaces to be coated to remove loose surface debris.
 4. Prepare patching compound areas in accordance with Polycoat Products recommendations. See your Polycoat Products representative for information.
- A. Rout or Saw cut: 1/2 inch by 1/2 inch (12 mm by 12 mm) minimum where system [s] is/are to be terminated in a horizontal plane.
- B. Rout or Saw cut: ¼ inch by ¼ inch (6 mm by 6 mm) cracks exceeding 1/16 inch (1.5 mm) wide.
- C. Sealant: Apply sealant, using backer rod as needed, to expansion, control and construction joints and routed cracks to be coated. Do not coat joints wider than 1 inch (25 cm). Install a 1/2 inch (12 mm) sealant cove at deck projections where projections are structurally and rigidly connected to substrate, such as many types of posts, vents, pipes, stanchions, railings, rigidly connected wall/slab intersections and similar such connected items having very limited movement.
- D. Primer: New plywood does not require primer. Prime plywood, concrete and metal following Polycoat Products recommendations.
- E. Flashing Reinforcement: Install 4" Straight Jacket Tape imbedded in detail coat for flashing reinforcement at rigidly connected wall/slab intersections.
- F. Detail Coat: Where water is expected to accumulate due to ponding, snow and ice build-up, excessive splashing, or other regional and project conditions, apply vertical detail coat 2 inches (5 cm) higher than anticipated high water exposure line. Apply over preparatory work described in paragraphs D, E, F, G and cracks under 1/16 inch (1.5 mm). Extend detail coat 2 inches (5 cm) onto deck on each side.

APPLICATION

The following paragraphs can be edited according to system type [s] selected.

- A. Recoating over an existing system can be achieved by cleaning (i.e. shotblast, waterblast and power scrubbing) the existing surface and repairing any damaged areas. Warranty is only for adhesion of our coating to existing urethane coating not to any other surface or substrate (a test patch must be done by the applicator prior to application).
- B. Apply system [s] indicated below to achieve performance established in system description.

CLEANING

- A. Clean excess material/stains from adjacent surfaces with appropriate cleaning agents.
- B. Remove masking protection, equipment, material, and debris from surface and storage area.

END OF SECTION

PRIOR TO INSTALLATION REFER TO MANUFACTURER'S LITERATURE (***I.E. GENERAL GUIDELINES, GUIDE SPECIFICATIONS, AND TECHNICAL BULLETINS***) FOR SPECIFIC INSTRUCTIONS.

	POLYDECK 160 SYSTEM
DESCRIPTION	WALKING DECK SYSTEM. WITH A CLASS A FIRE RATING ON CONCRETE (MAX SLOPE 1/4" PER FOOT). 60 DRY MILS.
TREATMENT OF JOINTS & CRACKS	CAULK WITH A POLYURETHANE CAULKING COMPOUND AND BACKER ROD OR PC 260 AND 4" STRAIGHT JACKET TAPE FOR REINFORCEMENT.
PRIME COAT	USE POLYPRIME 21, U22, U25 OR 2180 ON CONCRETE AND POLYPRIME 2180 ON METAL SURFACES (OPTIONAL ON NEW PLYWOOD). 1 GALLON PER 300 SQ. FT.
BASE MEMBRANE	PC 260 - 3 GALLONS PER 100 SQ. FT. IMMEDIATELY BROADCAST WHITE RUBBER OR 20/30 MESH SAND (SEE OPTIONAL SAND INSTALLATION IN TECHNICAL BULLETIN) AGGREGATE INTO BASECOAT @ 10 LBS. PER 100 SQ. FT. OR TO REFUSAL.
FIRST TOP COAT	1 GALLON PER 100 SQ. FT. OF POLYGLAZE 100 OR POLYGLAZE 100 OR AL.
OPTIONAL SECOND TOP COAT FOR WET OR DAMP CLIMATES	1 GALLON PER 100 SQ. FT. OF POLYGLAZE 100, AL OR STAINGARD 1110.
IMPORTANT	ALL VALUES ARE TYPICAL; ACTUAL DRY MIL THICKNESS MAY VARY SLIGHTLY. COVERAGE RATE IS APPROXIMATE AND WILL VARY DEPENDING ON THE SURFACE TEXTURE RESULTING FROM THE AGGREGATE.