ELASTO-DECK 6500 PT-VT

TWO COMPONENT, ALIPHATIC, HIGH SOLIDS POLYURETHANE, LOW ODOR TRAFFIC COATING SYSTEM

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION:

PACIFIC POLYMERS® ELASTO-DECK 6500 is a two component, aliphatic, UV stable, high solids, polyurethane, low odor, elastomeric traffic coating system. It is liquid applied and flexible. It is mixed at a 10:1 by volume ratio. **ELASTO-DECK 6500** is designed for pedestrian and vehicular traffic applications such as parking decks, roof decks, balconies, breezeways, and mechanical rooms.

TYPICAL PROPERTIES:

PROPERTY	TYPICAL RESULTS
Pot Life @75˚F	25 ± 5 minutes
Color	Concrete Grey Tan, White and Aluminum Gray - Minimums Do Apply
Shore "A" Hardness (ASTM D2240)	90 - 95
Tensile Strength (ASTM D412)	3000 psi. ± 10%
Elongation at Break (ASTM D412)	300% ± 10%
Moisture Vapor Transmission (ASTM E96)	1 perm
Weight per Gallon: A Component B Component	 9.55 lbs/ gal 8.09 lbs/ gal
Solid Content (ASTM D2369)	> 98%
Viscosity:	3500-4500 cps
V.O.C.	19 g/L, EPA Method 24
Tack-Free Time at 77°F (25°C) and 55% R.H.	2 hrs.
Re-Coat Time at 77°F (25°) and 55% R.H.	16-24 hrs.
Cure-Time at 77°F (25°) and 55% R.H.	72 hours
Flash Point	120°F (49°C)
Water Absorption (1 day @ 158°F + 3 days @ RT) (ASTM D570)	< 1.14%
UV Stability	2000 hrs, no discoloration or physical damage
Weatherometer (ASTM D1499)	2000 hours, no crazing, cracking, spalling or softening
Adhesive Peel Strength -Primed Concrete (ASTM D903)	35 pli cohesive failure
Bond Strength (ASTM D4541)	> 400 psi concrete failure
Tabor Abrasion (ASTM D4060)	0.144 mg wt loss
Falling Sand Abrasion (ASTM D968)	0.143 grams
Tear Strength (ASTM D624)	280 lb/in ± 10
ASTM E-108/UL 790	Pass
Weight Loss % (ASTM C836)	<15%

Temperature Service Range	-50˚F - 180˚ F (-45˚C - 82.2˚C)

PROPERTY	TYPICAL RESULTS
Chemical Resistance (ASTM D471)	Pass
** The shelf life for an unopened container stored at temperatures between 60°F (15.6°C) and 95°F (35°C) is 6 – 9 months from date of manufacture. Store out of direct sunlight in a cool, well-ventilated area. Avoid storing container directly on the floor or against an outside wall	

Standards: Complies with ASTM C957

ADVANTAGES:

- High Resistance to abrasion.
- Resistant to UV Light and yellowing.
- Dirt Resistant
- Easy to maintain.
- Durable and Flexible Coating.
- Provides very good impact resistance.
- Excellent Weathering.
- Easy to clean with detergent and water.
- Fast Drying

LIMITATIONS:

- All surfaces must be completely free of foreign matter and primed with **ELASTO-POXY PRIMER W.B** (low odor) **or ELASTO-POXY PRIMER VOC**, where necessary.
- **ELASTO-DECK 6500** has a very short work life, once mixed; the coating must be poured onto the surface and applied immediately.
- Not suggested for harsh chemical exposure.

WARNING AND HAZARDS:

- Before using the products, always refer to SDS for important warnings and safety information.
- Use only in areas with adequate ventilation. Avoid breathing vapors. Keep away from heat and flame. Avoid contact with eyes and skin. In the event of skin contact, remove immediately and wash with warm, soapy water. Wear suitable eye protection.
- Always wash hands before eating.

MATERIALS:

Recommended materials and their uses are as follows:

- **PERMATHANE®SM7120 PU** a one-part gun grade, non-staining, polyurethane sealant

- **ELASTO-POXY PRIMER W.B** A two-component, solvent free, water-based epoxy primer for use on concrete.
- **ELASTO-POXY PRIMER VOC** A two–component VOC compliant primer for use on concrete and metal/metal flashing.
- **AGGREGATE**. GILLIBRAND SILVER SAND or equal, which imparts the slip resistant texture and contributes to wear resistance

INSTALLATION:

SURFACE CONDITION:

- Before coating work is commenced, surface shall be re-inspected and treated as necessary to remove laitance, loose material on the surface, grease, oil and other contaminants which will affect bond of the coating.
- **CONCRETE**: Prior to the application of primer concrete shall be water-cured and attain a minimum 3,000 psi compressive strength for pedestrian deck coating applications and attain a minimum 4,000 psi compressive strength for vehicular deck coating applications.
- **CONCRETE MOISTURE:** Moisture content in the concrete must be lower than 4.5% as measured using a TRAMEX CME 4 or CME 5 Moisture Meter. Depending upon concrete construction and job location, additional concrete testing may be required.
- **WOOD MOISTURE:** Using a "Pin" type moisture meter, moisture content is at 15% maximum and dropping. The use of Elasto-Poxy Primer VOC may be needed for wood applications where moisture is a concern.
- **Metal:** Metal surfaces shall be dry, clean, free of grease, oil, dirt, rust and corrosion, other coatings and contaminants which could affect bond of coating system, and without sharp edges or offsets at joints. Metal substrates shall be primed with **ELASTO-POXY PRIMER VOC**
- Commencement of coating installation implies acceptance of that surface area, as it regards the suitability of the surface to accept the coating systems.

SURFACE PREPARATION

- Thoroughly clean all surfaces to receive coating materials in strict compliance with Manufacturer's written instructions and recommendations. Remove oil and grease with a commercial grade alkaline cleaner; thoroughly rinse and dry. Prepare all concrete surfaces by grinding or shot-blasting. Rout or saw cut all cracks exceeding 1/16" (.16cm) in width and caulk with **Permathane® SM7120 PU.**
- Caulk all expansion, control joints, and construction joints to be over coated by deck coating with **Permathane® SM7120 PU.** Protect adjacent surfaces with drop cloths or masking as required.

Flashing:

- Provide fluid applied flashings at all locations where a horizontal surface butts a vertical surface and at all deck penetration as specified.
- Projections through deck coatings such as posts, vents, pipes, stanchions, railings and similar locations of potential slight movement, provide a 1/4" (0.64 cm) bead of **Permathane® SM7120 PU**. Tool sealant to form a cove and allow to cure before over-coating.

Primer and Detail Work:

- Concrete Primer: Prime all concrete masonry surfaces. Apply primers at coating Manufacturer's recommended rate. Prime coat may be allowed to completely dry but shall not be applied more than 8 hours preceding application of deck coating. **ELASTO-POXY PRIMER VOC or W.B.** or shall be applied at the rate of 225-300 sq.ft. per gallon (7.36m2/liter). Mix only enough for use over a 2-hour period (max.). Allow a minimum dry time of 2 hours not to exceed 8 hours. Install deck coating base coat on the same day.
- Apply 25 mil (0.63 mm) dry film thickness of base coat material over all flashings (sheet flashings, sealant coves and rigid corners). Extend coating 2" (5.08 cm) beyond flashing out onto adjacent deck surface. Unless otherwise indicated on Drawings or where limited by height of base, extend coating a minimum of 1" (2.54 cm) above the top of the flashing and terminate in a neat straight line. Use masking tape for such purpose.
- Apply 25 mil (0.63 mm) dry film thickness of base coat material over and for a distance of 1-1/2" (3.8 cm) on each side of all cracks. Do not permit coating to extend over any joints larger than 1" (2.54 cm) nominal width and/or any joints which may move in excess of 25% of nominal dimension. This requirement shall apply to detail coatings as well as deck coatings.
- Apply 25 mil (0.63mm) dry film thickness of base coat material over and for a distance of 2" (5.08 cm) on each side of all expansion joints, control joints and construction joints to be coated.

APPLICATION:

- Material will perform best when applied between 70^{O}F and 80^{O}F.
- Lightly stir the A-Component (pigmented side) for 1**-3** minutes using a jiffy mixing blade to evenly distribute the pigments that may have settled to the bottom of the container.
- Pour "B" Component (clear side) into the "A" Component. Scrape the container to drain all the "B" Component into the "A" Component.
- Immediately mix thoroughly using a jiffy mixing blade attached to a low-speed drill (400 – 500 rpm speed) to a uniform color without any streaks. Mix for 2-3 minutes.
- Once mixed, immediately pour **ELASTO-DECK 6500** onto the surface of the substrate. Use an 1/8" notched squeegee to evenly apply the material, then back-roll using a roller to break air bubbles. Note: Higher temperatures will reduce the work life.
- Use of a spiked roller during application can reduce pinholes and bubbles.

- **ELASTO-DECK 6500 PT (Pedestrian Traffic) Elasto-Deck 6500** shall be applied to the primed concrete at a rate of 80 square feet per gallon (20 mil WFT). Following a 12-16 hour cure of the **ELASTO-DECK 6500**, apply **ELASTO-DECK 6500** at the rate of 80 square feet per gallon (20 mil WFT), while coating is in a fluid condition broadcast desired aggregate (Typically #16) at the rate of 12-15 pounds per 100 square feet and back-roll to ensure even distribution of the aggregate.
- Allow a minimum 48-hour cure before permitting any light foot traffic onto the finished system.

- **ELASTO-DECK 6500 VT (Vehicular Traffic) Elasto-Deck 6500** shall be applied to the primed concrete at a rate of 80 square feet per gallon (20 mil). Following a 12-16 hour cure apply **ELASTO-DECK 6500** at the rate of 80 square feet per gallon (20 mil), while coating is in a fluid condition broadcast desired aggregate (Typically #16) at the rate of 12-15 pounds per 100 square feet and back-roll to ensure even distribution of the aggregate.
- **Turn Radius and Ramp areas** will receive an additional broadcast and back roll coat at the rate of 80 square feet per gallon (20 mil), while coating is in a fluid condition broadcast desired aggregate (Typically #16) at the rate of 12-15 pounds per 100 square feet and back-roll to ensure even distribution of the aggregate.
- Allow a minimum of 72-96 hours cure time before allowing vehicular traffic onto the finished system.

TEMPERATURE CONSTRAINTS:

- Minimum application temperature is 40°F (4°C) and rising and more than 5°F above dew point.
- Contact Technical Service when substrates are over 90°F (32°C) or under 40°F (4°C).
- Avoid application when inclement weather is present or imminent.
- Do not apply to damp, wet, or contaminated surfaces

MAINTENANCE:

- Since, as with all deck coatings, the topcoat is subject to staining by such foreign matter as nitrates, fertilizers, hard water, and other substances, it must be maintained. The manufacturer is not liable for staining caused by hard water deposits, nitrates, fertilizers and other foreign matter.
- If **ELASTO-DECK 6500** is damaged, it can be repaired by cleaning the surface, priming with ELASTO-POXYPRIMER VOC and recoating with the **ELASTO-DECK 6500** system.
- Please refer to the Maintenance Manual for proper maintenance procedures.

CLEAN UP:

Equipment and tools should be cleaned immediately after use with acetone or other exempt solvent.

AVAILABILITY AND COST:

- **ELASTO-DECK 6500** is supplied through building material dealers.
- These products are designed and manufactured to be installed by professional installers familiar with surface preparation and application procedures. All others should consult a professional installer; those who choose to install these products without professional assistance do so at their own risk.

TECHNICAL SERVICE

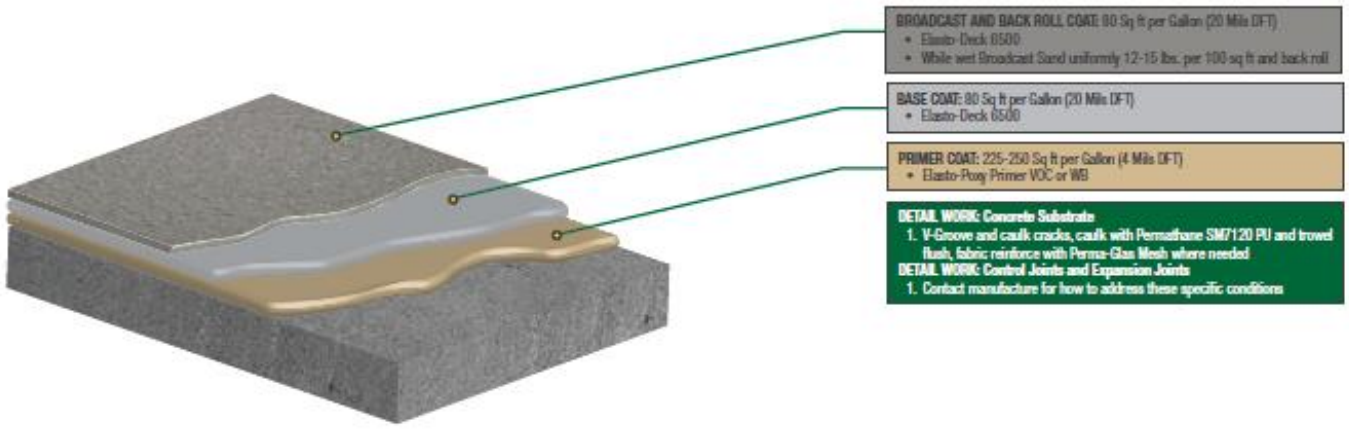
All of the latest updates to product data and specifications are available at holcimpacpoly.com. Since product data and specifications change, it is the user's responsibility to make certain the most current versions of product data and specifications are being used.

PRIOR TO USE OF THIS MATERIAL,
READ ALL APPROPRIATE SAFETY DATA SHEETS

PRODUCT WARRANTY:
INSTALL AS DIRECTED ON PACIFIC POLYMERS® PRODUCT DATA SHEET. USER DETERMINES SUITABILITY FOR INTENDED USE AND ASSUMES ALL RISK AND LIABILITY. THIS PRODUCT IS SOLD "AS IS." EXCEPT AS REQUIRED BY LAW, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IF TERMS ARE NOT ACCEPTABLE, RETURN UNOPENED PRODUCT TO PLACE OF PURCHASE. DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THESE PRODUCTS.

Complete technical information is available from
Holcim Solutions and Products US, LLC

ELASTO-DECK 6500 PT (PEDESTRIAN)



ELASTO-DECK 6500 VT (VEHICULAR)