ELASTO-DECK 5000

Floor and Deck Waterproofing System

DESCRIPTION:

Elasto-Deck 5000 is an elastomeric waterproof coating system for parking decks, roof decks, and walking decks, based on polyurethane elastomers. UV resistant.

COMPOSITION:

Elasto-deck 5000 is a **system** based on liquid-applied, single component, moisture-cured, polyurethane deck coverings . The system consists of a primer, Elasto-Deck 5001 basecoat, Elasto-Glaze 6001AL topcoat . Elasto-Deck 5000 is available in a aggregated finish.
Colour: Concrete Grey

SUGGESTED USES:

- For waterproofing parking decks, walking decks, roof decks, balconies, plazas, pump rooms (floor and roof), chemical plant rooms, Bunds, wet areas etc.
- Anti-skid, surface protection textured finish.
- The complete system is approximately 1.5mm thick.
- Designed for vehicular and pedestrian traffic.

LIMITATIONS:

- Containers that have been opened must be used up within one or two days since it is a moisture-reactive material and it sets up when exposed to air.
- All surfaces must be prepared carefully as outlined
- Undertake the application in periods of dry weather.
- Commercial / Industrial finish
- Strong odour during application
- Ready to use. Normally do not thin. Min Turps is the solvent if required.

APPROVALS:

- City of L.A. approval No. 24208
- City of S.F. approval No. 07570PAC.197
- Class “A” fire rating ASTM E-108 U.L. 790 on concrete decks.

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INSTALLATION

Surface Preparation

Concrete: All surfaces shall be free of contamination such as water, curing compounds, hardeners, bondbreakers, paint etc. A light broom-finish is recommended for concrete surfaces. .
Contaminants should be removed by shotblasting, grinding, sandblasting, or acid etching. Concrete must be dry. All cracks and joints must be opened up and filled with Elasto-Thane 230.
Plywood: All plywood must be mastic glue and screw fixed 20mm CCA waterbased H3 treated. Plwood sheets must be installed with 1-2mm gaps all around. All joints, gaps are screw heads, must be towel filled with, or spot spatuled with Elastothane 230 and allowed to cure.
All surfaces: Must be primed with Supascreed Primer prior to application of the coating system at a rate of 7m²/litre. The primer must be over-coated with Elastodeck 5000 within 24hrs.
All seams between plywood sheets and the transition from the metal flashing to the plywood deck must be reinforced by a strip of **Nuplex Joint Safe Tape.** This includes all upstands behind cladding. The application of Elasto-Deck 5001 can subsequently be made immediately over the entire area included the taped areas.

Application

Application should occur in good, dry conditions.
Elasto-Deck 5001 shall be applied to exterior grade plywood or primed concrete at a rate of 1.1m²/litre resulting in a 0.7mm thickness. Apply by notched rubber squeegee or trowel.
After a 24 hours cure, apply ElastoGlaze 6001AL at a rate of 2.82m²/litre. Broadcast desired aggregate (Nuplex 18/36 is often used) into the wet coating to refusal. After an overnight cure, sweep or blow off all the loose aggregate. Take great care that all loose material is removed. Apply a second coat of Elasto-Glaze 6001AL at a rate of 2.82m²/litre). Total system thickness is 1.3mm, excluding aggregate. Allow 48 hours cure time before allowing any traffic on the finished system.

MAINTENANCE: If Elasto-Deck 5000 system is damaged, it can be repaired by cleaning the surface with MEK and recoating it with Elasto-Deck 5000/6001. Inspect annually and recoat with Elasto-Glaze 6001 as required. Heavy wear areas will need more frequent treatments.

PRODUCER STATEMENT

Elastodeck 5000 as supplied by Nuplex Industries Ltd is stated to comply with the Building Act and all requirements of the Building Industry Authority. A 10 year warranty applies to Elastodeck 5000 providing all preparation and installation is carried out in accordance with product data and information by Nuplex Licensed Contractors who will be members of the Nuplex Contractors Federation Inc.

ELASTO-DECK 5000 (cont'd)

TECHNICAL DATA

	PROPERTY	TEST METHOD	RESULTS
*1.	Weather-o-Meter test (2000 hours)	ASTM D-1499 ASTM G-23	Surface showed no crazing, spalling or softening.
*2.	Accelerated Aging Test Procedure D & E	ASTM D-756	No indication of colour change, splits or cracks.
*3.	Bond strength	ASTM C-297	
	Primed concrete		164 psi
	Primed plywood		152 psi
	After accelerated aging		96 psi
*4.	Percolation Test	ICBO Criteria (1992)	No moisture accumulation after 48 hours.
*5	Water absorption	ASTM D-570	3.97 percent
*6.	Abrasion Resistance (1000 revolutions, 1000gr. Load #80 TP Aluminium Oxide Grit)	ASTM D-1242	Average loss in thickness: 0.52%
*7.	Concentrated Load Test (300lb load)	ICBO Criteria (1992)	No cracks or deterioration
*8.	Low Temperature Flexibility (1" (2.5cm) mandrel, 180deg bend)	ICBO Criteria (1992)	No crazing or cracking
*9.	**Chemical Resistance	ASTM D-2299	
(a)	20% Detergent		No effect
(b)	5% Ammonia		No effect
(c)	20% Salt Solution		No effect
(d)	Anti-freeze coolant		No effect
(e)	Kerosene		No effect
(f)	Paint Thinner		No effect
(g)	Distilled Water		No effect

* Test performed as per ICBO Criteria (1992) requirement

**Test conditions – 16 hours at 122°F immersion

NB: 1 US gallon = 3.8 litres
5 US gallons = 19.0 litres