

EAMIFLOOR PU AL

Decorative Aliphatic Polyurethane Coating

Product Description

EAMIFLOOR PU AL is two-component, high build, external aliphatic polyurethane coating, which is used for coating concrete and metal surfaces where chemical and abrasion resistance are a concern.

EAMIFLOOR PU AL provides a UV resistance durable gloss and color retention top coat finish.

EAMIFLOOR PU AL offers good operational performance including adhesion, abrasion scratches and impact resistance, when applied over suitable and properly primed surface.

Typical Applications

EAMIFLOOR PU AL is an excellent coating for wide ranges of floor with various performance characteristics. It provides a high grade of protection system to a variety of surface exposed to aggressive environments. Typical applications include:

- Pavements of pedestrian traffic decorative floors.
- Public areas of shopping centers.
- Food industries.
- Final sealer for clear and pigmented epoxy finishes
- Hospitals & laboratories.

Product Features

- Non yellowing, UV light resistance.
- High abrasion Resistance
- Excellent penetration .
- Chemical resistant.
- Low odor, 100% solids.
- Attractive range of colors.
- Ideal for interior and exterior areas.
- Highly flexible.
- Solvent free

Standard Colors White, Light Grey, Silver Grey and Dark Grey. Any color can be available under request.

Guide for Application

Application

Deck Coating System:

EAMIFLOOR PU AL is recommended for use as a Traffic Deck coating when applied on concrete or Epoxy coating.

Surface Preparation:

Concrete: Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.

- New concrete should be cured to a minimum of 28 days.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surface layers.
- Concrete should have a minimum surface tensile strength of at least 300 PSI per ASTM D-4541
- Surface profile shall be CSP-3 to CSP-5 meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete , producing a profile equal to 60-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile .
- Moisture vapor transmission should be 3 pounds or less per 1, 000 square feet over a 24 hour time period, as confirmed through a calcium chloride test, as per ASTM E-1907. Quantitative relative humidity (RH) testing, ASTM F- 2170 should confirm concrete RH results <75%.
- All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.

Technical Properties

Appearance	Colored brush able liquid	
Specific Gravity	1.34 ± 0.05	
Solid Content	100%	
Pot Life @ 20°C	90 ± 30 minutes	
Touch Dry @ 25°C	2.5 hours depend on temperature	
Recoat time @ 25°C	12-24 Hours	
Light Traffic @ 25°C	24 Hours	
Heavy Traffic @ 25°C	72 Hours	
Full Cure @ 25°C	7 days	
Elongation at break	65%	(ASTM D412-2016)
Tensile Strength	37.5 MPa	ASTM D412-2016)
Adhesion on metal	4B (Cross-Cut test)	(ASTM D3359-2017)
Abrasion Resistance	30 mg /1000 cycle	(ASTM D4060-2019)
Impact Resistance	Pass at 60 cm height	(ASTM D2794-2019)
Bending Resistance	Pass (dry film thickness 100 , on a mandrel with 3mm diameter)	(ASTM D522-2017)
Chemical Resistance		
Distilled water resistance at room temperature	(ASTM D870-2015)	Pass
Alkali resistance (5 wt% NaOH solution) at room temperature	(ASTM D1308-2013)	Pass
Soap solution (5 wt%) at room temperature	(ASTM D1308-2013)	Pass
Mineral Oil Resistance (2 hrs) at room temperature	(ES 981-2008)	Pass (occasional spillage)
Gasoline Resistance (2 hrs) at room temperature	(ES 981-2008)	Pass (occasional spillage)
Ethyl alcohol resistance using solvent rubs (50 rubs)	(ASTM D5402-2019)	Pass

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Primer

For porous concrete surface use EAMIPRIME EP3 @ 50-75 microns.

For metal surfaces use EAMIPRIME EPZR @ 75-100 microns

Coating

Apply EAMIFLOOR PU AL with medium nap roller or brush. When used as a paint coating on concrete intended for use as a wearing surface, it is recommended that an aggregate (Approx.30-40 mesh) be incorporated in to the coating to increase wear and abrasion resistance.

A successful application may be dependent on proper aggregate size and loading. In all applications a test patch must be placed and the finish approved by the owner prior to begin the job.

Limitation

- Do not apply to damp or contaminated surfaces .
- Use with adequate ventilation.
- Application temperature between 5°C -40°C.
- Vapor barrier should be installed on slab on grade .
- Partial mixing is not allowed.
- Substrate temperature should be more than 5°C & humidity less than 4% .

Coverage

Coverage for use as a concrete paint/sealers dependent on surface porosity of concrete , number of coats used and aggregate texture chosen and may range from 1 .65 to 2.50 m² per kg.

Coverage over epoxy will range from 2.50-4 m² per kg depending on recommended thickness

Warranty

We warrant our products to be of good quality & manufactured to rigid standards. This Warranty is in lieu of any & all other warranties expressed or implied.

This data sheet is published for information only. It is believed to be correct but no liability is accepted for it or the suitability of the product for any particular purpose.

EAMIC TRETOL services are free & the company does not accept liability for any loss arising from it. Max liability is limited to substituting the same quality of material .

Cleaning

All tools and equipment shall be cleaned with water after work immediately and before curing.

Packaging

EAMIFLOOR PU AL is supplied in 5 kg / packs

Storage

EAMIFLOOR PU AL shall be stored in dry warehouse away from any source of moisture..

Shelf Life

12 months if stored properly as recommended.

Health and Safety

- EAMIFLOOR PU AL is non – flammable, but it contains cement, Protective gloves and goggles shall be used during mixing and applications.
- Any splashes on skin should be washed with water.
- Seek medical assistance in case of contact with eyes, after washing it with running water.
- For any details, please refer to the product MSDS.

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