

EAMIFLOOR PU ALS

Polyurethane Trafficable Bearing UV-Resistant Coating

Product Description

EAMIFLOOR PU ALS is a two component hard wearing pigmented aliphatic polyurethane coating that is recommended for use as a deck trafficable floor coating on concrete & over epoxy flooring. EAMIFLOOR PU ALS provides a tough anti skid, durable hard wearing high chemical & abrasion resistance floor coating with aesthetically appealing colorful look.

Typical Applications

EAMIFLOOR PU ALS is design for use in following applications:

- Pedestrian walk ways.
- Roof decks.
- Stadium floors.
- Industrial areas.
- Warehouse & storage.
- Balconies .
- External UV top coat on concrete & epoxy.
- Mechanical rooms.
- Athletic surfaces.

Product Features

- Excellent impact & abrasion resistance.
- UV & weather resistance.
- Good chemical & oil resistance.
- Reduce surface porosity.
- Non-skid.
- Excellent flexibility & durability .
- Non yellowing .
- Provides excellent adhesion to common substrates.

Standard Colors

White, Light Grey, Silver Grey and Dark Grey. For large quantities any color can be available under request.

Guide for Application

Application

Deck Coating System:

EAMIFLOOR PU ALS is recommended for use as a Traffic Deck coating when applied on concrete and 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	Coloured liquid
Specific Gravity@ 25°C (ASTM D1475-2013)	1.44 ± 0.05
Solid Content	91.4%
Pot Life @ 20°C	30 ± 10 minutes
Touch Dry	1 Hours depend on temperature
Recoat time @ 25°C	6-12 Hours
Light Traffic @ 25°C	72 Hours
Full Cure @ 25°C	7 days
Elongation at break (ASTM D412-2016)	75%
Adhesion (ASTM D3359-2017)	5B (Cross-Cut test)
Pull off Test (ASTM D4541-2017)	>3.4 (MPa)
Abrasion Resistance (ASTM D4060-2019)	30 mg ≤ 50 mg pass1000 cycle (using a wheel no.CS-10 measure weight loss)
Impact Resistance (ASTM D2794-2019)	Pass at 60 cm height
Bending Resistance (ASTM D522-2017)	Pass (dry film thickness 100 , on a mandrel with 3mm diameter)
Hardness (Shore A) (ASTM D2240)	85-95

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 (occasional spillage)

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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 ALS 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.

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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 ALS is supplied in 5 kg / packs

Storage

EAMIFLOOR PU ALS 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 ALS 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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