

EAMIFLOOR PU AR

Polyurethane Coating

Product Description

EAMIFLOOR PU AR is a two-component, low VOC, pigmented aromatic polyurethane resin -based protective coating.

EAMIFLOOR PU AR is formulated to provide a durable protection to concrete, steel and masonry substrates. The cured film provides aesthetically appealing, skid resistance high chemical and abrasion resistance ,with min dirt pick up to clean.

Typical Applications

EAMIFLOOR PU AR is formulated as a durable protective coating for:

- Factory floors and warehouse.
- Heavy duty interior structural.
- Concrete and masonry substrates.
- Mechanical rooms

Product Features

- Easy to mix and to apply.
- Provides extended durability for pedestrian use.
- Provides excellent light fastness.
- Excellent mechanical properties.
- High resistance to weathering.
- Cured film resists attack by mildew.
- High adhesion to steel and concrete.
- Solvent free
- Brush or roller application.
- Non reflective – won't cause any visibility problem due to reflection of light.
- Compatible with other EAMIC PU Deck coatings.

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 AR 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		Pigmented brush able liquid
Specific Gravity		1.39 ± 0.05
Solid Content		100%
Pot Life @ 20°C		30 ± 10 minutes
Touch Dry		2.5 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)	130
Adhesion	(ASTM D3359-2017)	5B (Cross-Cut test)
Pull off Test	(ASTM D4541-2017)	>3.4 (MPa)
Abrasion Resistance	(ASTM D4060-2019)	Pass 40 mg loss using a wheel no.CS-10 -1000 cycle
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

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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 AR 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 AR is supplied in 5 kg / packs

Storage

EAMIFLOOR PU AR 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 AR 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.

EAMIC TRETOL

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