

TERRALUX

PolyMatrixProFlooringSystem by Koochie Global

Description

The **Terralux PolyMatrix Pro Flooring System** by Koochie Global represents the *pinnacle of architectural surfacing*, where uncompromising aesthetics meet advanced chemical engineering. Designed for the most discerning global projects, this solvent-free polyurethane system provides a seamless, flexible finish that transforms functional areas into **breathtaking design statements**. Unlike standard solutions that amber over time, our Polymatrix Pro Flooring System is engineered specifically for tropical climates, for total UV stability, maintaining a crystal-clear, colourless appearance that enhances the natural beauty of decorative aggregates. It cures into an inert, harmless stone surface that is as environmentally responsible as it is aesthetically superior. The system provides a seamless, flexible finish capable of withstanding both fuel spillages and extreme temperature fluctuations.

Elite Technical Attributes

- **Exquisite Aesthetic Appeal** – Delivers a seamless, high-end finish that enhances the architectural character of any property with sophisticated visual depth.
- **Superior UV Resilience** – Engineered with advanced UV stability to ensure colors remain vibrant and resistant to ambering, even under intense solar exposure.
- **Rapid, Precision Installation** – Optimized for a streamlined application process, minimizing onsite disruption without compromising on artisanal quality.
- **Eco-Conscious Permeability** – Fully SuDS-compliant, allowing for natural drainage that marries environmental responsibility with high-performance engineering.
- **Exceptional Investment Value** – Provides a premium finish that balances initial cost-efficiency with long-term structural integrity.
- **Effortless Upkeep** – Designed for the modern lifestyle, requiring minimal maintenance to retain its pristine, "just-installed" appearance.
- **Natural Weed Suppression** – An expertly bound matrix that intuitively inhibits weed growth, ensuring clean lines and an immaculate surface year-round.
- **Transitional Versatility** – Sophisticated enough for interior galleries yet durable enough for grand exterior landscapes, creating a fluid indoor-outdoor flow.
- **All-Season Adaptability** – Formulated for versatile installation, with the unique ability to be flawlessly laid even in higher temperature thresholds.
- **Bespoke Design Freedom** – Offers a canvas for creativity, allowing for the seamless integration of custom logos, intricate patterns, and personalized motifs.
- **Industrial-Grade Durability** – Fortified to resist damage from fuel and solvent spillages, maintaining its elegance even in demanding environments.

Appearance

Koochie Terralux UV Resin is exceptionally resistant to discolouration after exposure to light. It is ideal for use with light-coloured aggregates or other aggregates where colour stability is a key requirement.

Koochie Global supplies a wide range of aggregate blends that are suitable for Koochie Terralux Polymatrix Pro. Please see the aggregate blends section. Our aggregate range is periodically updated, please contact us for details of blends available.

Technical Data – Terralux Polymatrix Pro

Colour	Transparent
Viscosity @ 20°C	3300-4300 cPs
Gel time 250 gms @ 20°C	40-60 Mins
Curing Speed - thin film @ 20°C	2.5-3.5 Hours
Curing Speed - thin film @ 5°C	9-12 Hours
Tensile strength after 7days	12MPa
Elongation after 7days	40%
Hardness (Shore-A) after 7days	85

Preparation and Application

Mixing ratio

Part A (Resin) 1: 1 with Part B (Hardener)

For 6.5kgs kits:

Part A 3.25kgs need mixing with Part B 3.25kgs

Pot life	
+10°C	120 Mins
+20°C	90 Mins
+30°C	40 Mins

Final drying times

Foot Traffic	
Lightly Serviceable	2 Days
Fully Serviceable	3 Days
	7 Days

**NOTE: All above values are approximate.*

Coverage

Location	Suggested Min. Depth	Approx Coverage*
Pedestrian Only Areas	12mm	5m ²
Light Use Driveways	18mm	3.3m ²
Light Commercial Vehicle Areas	25mm	2.4m ²

**Approx per 1 pack of resin and 100kg specified aggregate. Based on a normal stress mix. Greater thickness will enable better compaction, resulting in improved durability.*

Aftercare

Occasional sweeping using a stiff brush. Any spilt contaminants should be cleaned as soon as possible. Cold pressure washing may be used to remove ingrained dirt etc., avoid close contact with high pressure water jetting.

Packaging

Standard package:

- 6.5 kgs/drums, 3.25kgs-50kits / pallet
- 200kgs/drums, 800kgs-4drums / pallet
- IBC 1 ton package

Storage

Koochie Terralux Polymatrix Pro has a shelf life more than 12 months if stored in dry environment. Both components should be stored at ambient temperatures to ensure the products remain

in prime useable condition. Storage of products outside this range or repeated fluctuations in storage temperature can reduce the storage life of resin-based products.

Health & safety

It is recommended that barrier creams, gloves and protective clothing are used when using Koochie Terralux Polymatrix Pro. If eyes are affected, wash them with copious amounts of water and seek medical advice. For full details refer to Safety Data Sheet.

Specifications for Tenders

- **Chemical Stability:** The system must be a 100% solvent-free, UV-stable polyurethane resin that remains transparent and resistant to discoloration over its lifespan.
- **Elasticity & Tensile Resilience:** To prevent surface cracking under thermal stress, the binder must achieve a minimum tensile strength of 12MPa and an elongation of 40% after a 7-day cure.
- **Structural Hardness:** The cured surface must reach a Shore-A Hardness of 85, providing an elite balance of impact resistance and flexibility.
- **Precision Mixing Ratio:** To ensure chemical consistency, the system must utilize a 1:1 mixing ratio by weight (Part A to Part B), eliminating the common errors associated with 2:1 or 3:1 budget systems.
- **Permeability:** The finished surface must be SuDS compliant, providing a fully permeable, "weed inhibiting" decorative finish suitable for internal and external use.
- **Installation Integrity:** To ensure maximum durability, the material must allow for greater thickness to enable superior compaction, with specific depths of 18mm for driveways and 25mm for commercial zones.