



TerraLux™

PREMIUM POLYMATRIX PRO SURFACING

A PRODUCT BY KOOCHIE GLOBAL



PREMIUM SURFACING

WHERE Aesthetics MEET Excellence

The Koochie TerraLux™ PolyMatrix Pro System represents the pinnacle of architectural surfacing, where uncompromising aesthetics meet advanced chemical engineering. Designed for the most discerning global projects, the TerraLux™ PolyMatrix Pro System provides a seamless, flexible finish that transforms functional areas into breathtaking design statements.

Unlike standard materials that amber or yellow over time, Koochie TerraLux™ is engineered specifically for tropical climates, ensuring enhanced stability. It maintains a crystal-clear, colourless appearance that enhances the natural beauty of decorative aggregates while remaining environmentally responsible and structurally superior.



ELITE Technical Attributes



ENGINEERED FOR PERFORMANCE.
DESIGNED FOR DISTINCTION.

TerraLux™ is built on a foundation of advanced material science and precision engineering, delivering a surface that performs as beautifully as it appears. Every layer is crafted to ensure durability, consistency, and long-term visual integrity across demanding environments.



EXQUISITE AESTHETIC APPEAL

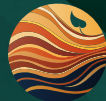
Delivers a seamless, high-end finish that enhances architectural character with sophisticated visual depth.



SUPERIOR UV RESILIENCE

Engineered with advanced UV stability to ensure colors remain vibrant and resistant to ambering or yellowing under intense solar exposure.

DESIGNED FOR Versatile Environments



- Residential & Commercial Landscapes
- Institutional Campuses & Schools
- Hospitality & Leisure Spaces
- Walkways, Plazas & Courtyards
- Public & Urban Infrastructure



RAPID PRECISION INSTALLATION

Optimized for streamlined application, minimizing onsite disruption and without compromising artisanal quality.

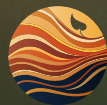


ECO-CONSCIOUS PERMEABILITY

Fully SuDS-compliant, allowing natural drainage that marries environmental responsibility with high-performance engineering.



Ultra Resistance & Durability



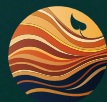
Fortified to resist damage from fuel and solvent spillages, the Koochie TerraLux™ PolyMatrix Pro System, maintains its elegance even in demanding environments. The system provides a seamless, adaptive finish capable of withstanding both fuel spillages and extreme temperature fluctuations.

Its solvent-free formulation cures into an inert, harmless stone surface that is as environmentally responsible as it is aesthetically superior, making it ideal for both commercial and residential applications.





Crystal Clear Appearance



Koochie Global offers a curated range of aggregate blends designed for the TerraLux™ PolyMatrix Pro System. Our aggregate range is periodically updated—please contact us for details of various blends available.

Each blend is carefully curated to deliver a consistent finish, enhanced colour clarity, and long-term visual stability. The transparent resin formulation ensures the natural character of the aggregates is preserved, resulting in surfaces that remain vibrant, refined, and true to design intent over time.



Performance Benefits



EXCEPTIONAL INVESTMENT VALUE

Premium finish, balancing cost-efficiency with long-term structural integrity.



EFFORTLESS UPKEEP

Minimal maintenance required to retain pristine "just-installed" appearance.



NATURAL WEED SUPPRESSION

Expertly bound matrix intuitively inhibits weed growth for pristine surfaces year-round.



ALL-SEASON ADAPTABILITY

Versatile installation capability, even in higher temperature thresholds.



TRANSITIONAL VERSATILITY

Interior galleries to grand exterior landscapes, creating a fluid indoor-outdoor flow.



BESPOKE DESIGN FREEDOM

Seamless integration of custom logos, intricate patterns, and personalized motifs.

12

TENSILE STRENGTH

MPa after 7 days, ensuring exceptional structural integrity

40%

ELONGATION STRENGTH

After 7 days, providing superior flexibility and crack resistance

85

SHORE-A HARDNESS

After 7 days, delivering optimal impact resistance

MIXING RATIO

Part A (Resin) 1:1 with Part B (Hardener).
For 6.5 kg kits: Part A = 3.25 kg mixed with Part B = 3.25 kg

CURING SPEED

Thin film @ 20°C: 2.5–3.5 hours
Thin film @ 5°C: 9–12 hours
Gel time 250 g @ 20°C: 40–60 minutes

Application & Coverage

TerraLux™ is engineered for precision and consistency across varying application conditions. The following guidelines outline recommended depths, coverage, and curing timelines to ensure optimal performance and long-term durability.



PEDESTRIAN AREAS

12 mm minimum depth

Approximately 5m² coverage per pack

LIGHT USE DRIVEWAYS

18 mm minimum depth

Approximately 3.3 m² coverage per pack



COMMERCIAL VEHICLE AREAS

25 mm minimum depth

Approximately 2.4 m² coverage per pack

FOOT TRAFFIC

2 days

FULLY SERVICEABLE

7 days

1

2

3

LIGHTLY SERVICEABLE

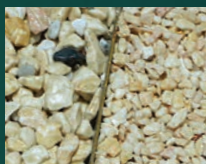
3 days

*Coverage based on 1 pack of resin and 100 kg specified aggregate using normal stress mix.
Greater thickness enables better compaction, resulting in improved durability.*

Specifications for Tenders



TerraLux™ is engineered to meet stringent performance standards across durability, flexibility, and environmental resilience. The following specifications outline key material properties essential for tender documentation and project evaluation. These parameters ensure consistency in application, long-term performance, and compliance with industry benchmarks.



CHEMICAL STABILITY

100% solvent-free, UV-stable polyurethane resin that remains transparent and resistant to discoloration over its lifespan.



ELASTICITY & TENSILE RESILIENCE

Min. tensile strength of 12 MPa & elongation of 40% after a 7-day curing period, to prevent surface cracking under thermal stress.



STRUCTURAL HARDNESS

Shore-A Hardness of 85, providing an exquisite balance of impact resistance and flexibility.



PRECISION MIXING RATIO

1:1 mixing ratio by weight (Part A:Part B), eliminating common errors associated with budget systems.

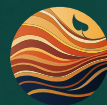


SuDS COMPLIANCE

Fully permeable, weed-inhibiting decorative finish suitable for internal and external use.



Storage, Packaging and Aftercare



SIMPLE MAINTENANCE

Occasional sweeping using a stiff brush. Clean spilt contaminants immediately. Cold pressure washing may be used to remove ingrained dirt—avoid close contact with high pressure water jetting.

STORAGE REQUIREMENTS

The shelf life exceeds 12 months when stored in a dry environment at ambient temperatures. Storage outside this range or repeated temperature fluctuations can reduce storage life.



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