

# META MATRIX

## 3D UNDERLAYMENT DRAINAGE & VENTILATION

**METAL ROOFING | CEDAR SHAKES | CEDAR SHINGLES | ZINC ROOFING  
SIDING APPLICATIONS | TURF REINFORCEMENT**

**MetaMatrix®** is a black Nylon (8mm) 3-dimensional drainage, ventilation, and turf reinforcement underlayment. It is produced from an extruded polymer matrix of tangled monofilaments, which are heat-welded at the junctions to form a structure that spaces roofing and siding materials from the sheathing.

The product is designed to create a continuous airspace for ventilation and drainage that prevents moisture issues. **MetaMatrix®** is extremely flexible and conforms to any contoured surface or roofing material (cedar, metal, tile, etc.) and is perfect for residential and commercial applications.

### FEATURES & BENEFITS

- Fire Resistant.
- Drainage of excess moisture and ventilation in one product.
- Creates an open structure for heat reduction between roofing & sheathing.
- Reduces sound transmission through panels.
- Polymer core resistant to most known corrosive chemicals, including solvents.
- Core absorbs and releases no moisture.
- Provides no source for the promotion of MOLD, MILDEW or BACTERIA
- Prolongs life of membrane and roof structure.
- Simple installation with mechanical staple hammer.
- Lightweight, easy to install and handle.
- Bends and conforms to any type of contoured roof.
- 75% greater air flow compared to competitive products.
- Contributes to LEED points.

### TECHNICAL DATA

PROPERTIES	TEST METHOD	METAMATRIX®
Core Material		Nylon
Colour		Black
Flame Spread	ASTM E84	Class A
Thickness	ASTM D6525	8 mm (0.3 inch)
Mass/Unit Area	ASTM D5261	280 g/SqMt (8.25 oz/SqYd)
Elongation	ASTM 5035	MD 60% CD 55%
Tensile Strength	ASTM 5035	MD 105 lbs./SqFt CD 70 lbs./SqFt

### PHYSICAL DATA

Roll Width	1.5 m (59 Inch)
Roll Length	12.5 m (41 Feet)
Area/Roll	18.75 SqMt (200 SqFt)
Weight/Roll	11.5 Lb (5.2 Kg)
Rolls/Pallet	21



KPNE Products Ltd.

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### INSTALLATION INSTRUCTIONS

Install plywood roof sheathing onto rafters. Install roofing felt or ice dam protection membrane over sheathing. Check local codes and manufacturer's recommendations for specific requirements.

Install **MetaMatrix**® over roofing felt, ice protection membrane, and metal edge flashing or drip edge. Ensure **MetaMatrix**® material is installed flush against edge of the flashing or drip edge. Carefully trim the **MetaMatrix**® material at all penetrations with a utility knife or scissors.

When installing metal or cedar shingles material, unroll **MetaMatrix**® horizontally just ahead of the shingles as they are installed. Tack or nail **MetaMatrix**® in place every three-square foot. Do not overlap the **MetaMatrix**® material. Butt each course tightly against the previous course and at vertical seams.

When installing vertical metal roofing panels, unroll **MetaMatrix**® vertically from ridge to eave just ahead of the metal panels as they are installed. Tack or nail **MetaMatrix**® in place every three- square foot. Do not overlap the **MetaMatrix**® material. Butt each course tightly against the previous course and at vertical seams.

At ridge locations, extend **MetaMatrix**® material over the ridge and butt against the material on the opposite side of the roof. If a ridge vent is utilized, follow the ridge vent manufacturer's recommendations for underlayment material installation.

Apply roofing materials using manufacturer's recommended fasteners and instructions, allowing for the additional thickness of the **MetaMatrix**® material.

Protect installed roof ventilation mats from damage during construction.