EnerThane AP 250

EnerCon
Innovation Drives Us

KEY FEATURES

- Self Priming ✓
- 100% Solid - Solvent Free ✓
- Ponding Water Resistance ✓
- High Solar Reflective - Cool Roofing ✓
- Excellent UV & Weather Resistance ✓

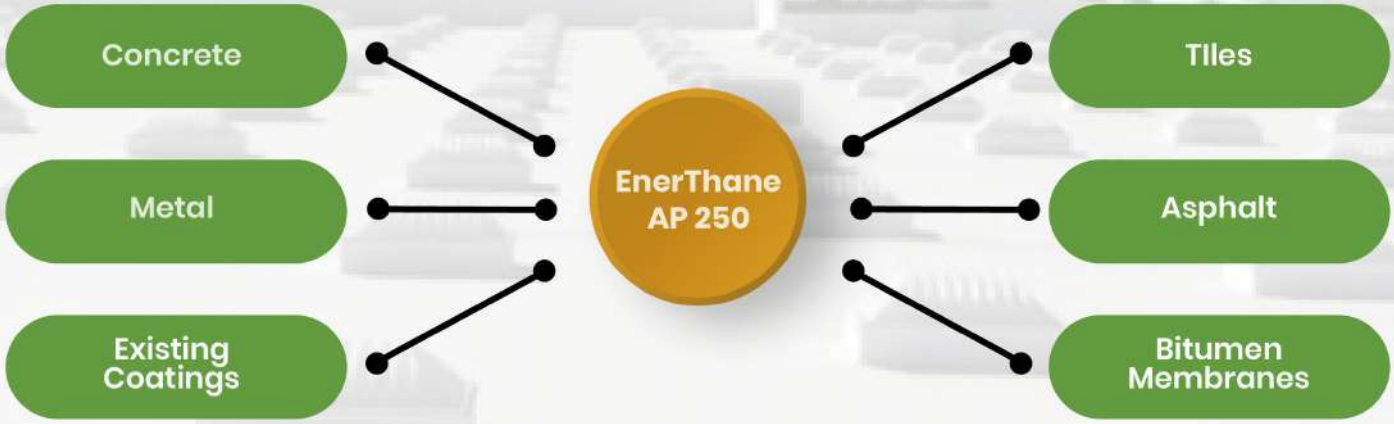
SELF PRIMING

100% Solid Solvent Free 100% solid

EnerThane AP 250 is a high-performance, single-component aliphatic polyurethane waterproof coating, engineered for extreme weather conditions. Designed for long-term durability, this advanced coating forms a seamless, elastic, and fully adhered membrane that provides outstanding resistance to UV, ponding water, and thermal stress.

Single Component Aliphatic PU Roof Coating

Exceptional Adhesion:
EnerThane AP 250 provides highest possible adhesion with a wide range of substrates



EnerThane
AP 250

EnerThane AP 250 is an single-component, fluid applied, aliphatic polyurethane waterproof coating, which cures with the humidity to form a seamless, durable, elastomeric, and impermeable membrane.

APPLICATION GUIDELINES

Applicable Substrates:

Innate hydrophobic properties of EnerThane AP 250 makes it an ideal waterproofing solution both for flat or pitched roofs. Especially, roofs with ponding water areas or roofs with sprayed polyurethane foam (SPF). EnerThane AP 250 can be applied on concrete, tiles, metal, existing coatings, membranes, tanks, balconies, planter areas etc.

Preparation:

The surface must be properly cleaned from loose particles, dust, oil, etc. Any existing or old coatings should be removed. EnerThane AP 250 must be applied on dry and sound surfaces. A moisture content of less than 5% is generally recommended for concrete surfaces. Joints and cracks should be sealed with EnerSil PU joint sealant or EnerSeal Tape.

Priming:

Generally primer is suggested but EnerThane AP 250 can be applied without the use of a primer on most of the surfaces. However, It is recommended to carry out mockup to ensure adhesion before application. If required, the use of EnerPrime BB 30 can improve mechanical properties of the membrane on top of concrete and it can act as bleed block on top of asphalt surfaces. If primer is applied, first coat of EnerThane AP 250 cannot be applied within 1 hour and later than 48 hours, after primer application.

Application:

EnerThane AP 250 is supplied as single-component, ready to use, which can be applied by roller, brush, squeegee or airless spray gun. After opening the pail, stir it thoroughly for 2-4 minutes to mix it. It can be applied in single thick coat, but if opting for more than one coat, time interval between each coat must not be less than 3 hours and must not exceed 48 hours.

To improve mechanical and crack-bridging properties, it is recommended to use Geotextile (non-woven, needle-punched 120 gsm polyester fabric) between two coats. Use of geotextile is also recommended for sealing joints, cracks or any other extrusions such as chimneys, solar panels base frames etc. Furthermore, the use of EnerThane AP 250 in combination with geotextiles is also recommended for waterproofing roofs with cementitious screeds, which have the tendency to crack.
Generally thinning is not required, but for airless spray application, it is suggested to dilute the product with SOLVENT APM from 5 – 10%. Never dilute the product with water. The same solvent can be used for cleaning the tools or the equipment.
EnerThane AP 250 can be applied as top for EnerThane AR 150 to eliminate the chalking effect and provide UV resistance. EnerThane AP 250 can be slippery when wet. To avoid this effect, coating can be sprinkled with appropriate size quartz particles while it is still fresh. EnerThane AP 250 is not suitable for application as a directly exposed layer on swimming pools.

TECHNICAL PROPERTIES

Characteristics	*Values
Weight Solids	96%
Volume Solids	96%
Viscosity 74°F (23°C)	2,500 cps
Density @ 70°F (21°C)	1.4 g/cm³
Tensile Strength	410 psi
Elongation at Break	600%
Hardness SHORE A	55
Permeability	< 5 perms
Temperature Resistance	-40°F to 175°F (-40°C to 80°C)
Skin Time (73°F, 50% R.H.)	3 – 6 hours
Adhesion with Concrete	> 290 psi
VOC	< 10 g/L

**Above values are nominal test values*

Weather Conditions:

Rainy weather should be avoided.

Coverage:

A minimum consumption of 2.1 – 2.8 gal per square (1.2 – 1.6 kg/m²) is recommended. Actual consumption may vary depending on surface roughness, wastage, wind loss or other factors.

Curing time

6 to 24 hours, depending on environmental conditions.

Shelf life

At least 12 months in sealed containers, while stored in a shaded area with temperatures between 40 °F and 85 °F. If opened, the product should be used all at once. Partially used pails may develop a skin layer on top during storage. Skin layer can be removed to use balance liquid material.

Colors:

White as standard

Packaging Size:

25 Kg Pail

PRECAUTIONS

Storage & Handling:

Protective clothing, gloves, and eyewear should be used during application. Do not heat the pails or place the pails near the heated surface. When transporting this product, ensure that the pail lid is tightly sealed. Do Not allow products to tumble or shift as this may cause leakage to occur. Do not transport on passenger seats or inside the passenger compartment of any vehicle.

For more details:

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