



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.

### KEY FEATURES

- Self-Priming
- Solvent-free – 100% solids
- Excellent ponding water & UV resistance
- Excellent flexibility, color stability and crack-bridging
- Excellent resistance against many chemicals and detergents
- Can be applied in single thick coat without any bubble formation
- Highly solar reflective properties makes it an effective cool roof coating
- Excellent flexibility even at low temperature -40°F (-40°C)
- Forms a seamless & breathable membrane with crack bridging properties
- Good Thermal Resistance. Does not get soft or tacky at high temperature 175° F (+80°C)

### 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.

### 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/cm <sup>3</sup>
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*

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.

#### Weather Conditions:

Rainy weather should be avoided.

#### Coverage:

A minimum consumption of 2.1 – 2.8 gal per square (1.2 – 1.6 kg/m<sup>2</sup>) 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 50 °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.

### Warranty & Limitations of Liability:

We warrant that this product shall be free of any defect in material at the time of purchase. This warranty does not extend to any defect or failure caused by misuse and/or incorrect application. **LIMITATION OF LIABILITY:** In the event of a defect or failure falling under this warranty, Buyer's sole remedy shall be refund of the purchase price or replacement of the defective material, at Seller's option. Under no circumstances shall Seller be liable for any losses or damages caused by this product, whether direct, indirect, special, incidental, or consequential damages, whether based on contract, or any other legal theory.

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