

- \* Salt fog Resistance
- \* Humidity Resistance
- \* Alkali Resistance
- \* Water Resistance
- \* Brush Resistance
- \* Roof Top
- \* Energy Saving



# ENECON

## RCool

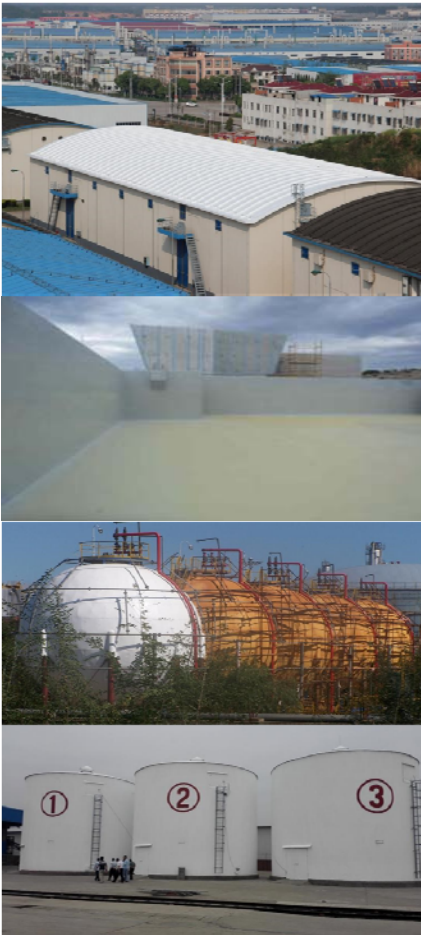
### 7 - 10 °C Reduction in Roof Surface Temperature

**RCool** is a coating that has the ability to reflect heat from sunlight up to 90%. So, it is like an insulator and also water can not penetrate - which will help reduce the leakage problem.

**RCool's** superior performed is due to a coating technology using reflective polymer composite and many other synthetic resin properties. **RCool** has been tested in the lab extensively and in the real weather conditions, reduce the temperature of the surface by 7 - 10 degrees. This results in reduced temperatures in the room, building, warehouse, helping to reduce the electricity consumption of the cooling system. In addition, it helps to maintain the liquid condition in the Storage Tank efficiently and reduces evaporation.

**RCool** can be applied on metal surfaces, concrete, walls, roofs, tiles Metal sheet roofing, concrete building roof well.

**RCool** is a coating that can be applied to homes, buildings and industrial plants, electronic manufacturing plants, food plants, oil depots, chemical plants, substations, etc.



### Physical and Chemical Properties

Physical state	Liquid
Color:	White
Lightning (°C) (Close Cup Test)	27
Viscosity	N/A
Specific gravity	1.250
Steam density	Heavier than air
PH	Unavailable
Explosive downline (c/oV/V air)	0.8
Solubility in water	Cannot be mixed
Odor	Solvent smell



**ENECON (THAILAND) CO.,LTD.**

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## RCool

7 - 10 °C Reduction in Roof Surface Temperature

### Performance Index

### Technical Data

#### Metal Treatment

Test Item	Test Result
Status in containners	No hard lump.
Hiding rate	≥096
Salt fog resistance	800h,no frothing, no rusting.
Humidity resistance	800h,no frothing, no rusting.

#### Roof Treatment

Test Item	Test Result
Status in containners	No hard lump and agglomeration after mixing
Construction status	No obstacle during coating.
Film appearance	No pinholes, No sagging.
Dry time	50 min
Contrast ratio	0.92
Alkali resistance	48h no abnormalities
Water resistance	96h no abnormalities
Film resistance	No abnormalities 3 cycles
Tensile strength	8.5 MPa
Low temperature stability	Nerver degenerating 0.90

Dry time	Film appearance Normal
	Surface dry 1.0h
	Hard dry 12h
Solar heat reflectance (white)	0.90
Hemispherical emissivity	0.88
Near-infrared reflectance	0.89
Adhesion force (grid spacing,1mm)	0
Pencil hardness(scratching)	H
Moisture resistance and thermal cycling (5 times)	No abnormalities

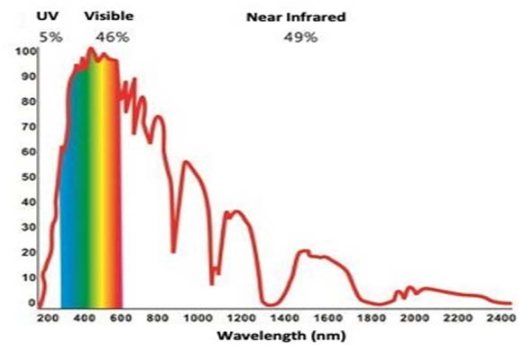
#### Artificail weathering resistance

- Ageing time,h	800h ,no fronthing, no rusting ,no cracks
- Pulverizing , grade	0
- Discoloration, grade	1
<b>Solar heat reflectance (white)</b>	
- Near - infrared reflectance	0.87
- Hemispherical emissivity	0.89
- Rate of solar light reflectance	0.80
- Outlook change	No frothing ,No peel-off,

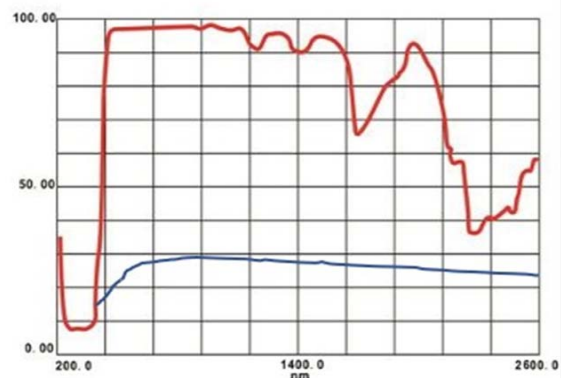
#### Stability and Reactivity

Stability :	Stable
Prohibited substance :	Strong Oxidants , Acids, Alkalis.
Avoided contact conditions :	Avoid high temperature , High heat, Open flame, Power supply.
Polymerization hazard :	Cannot occur.

Unit size	20 Liter
Color	White
Volume Solids	60 %
Vehicle Type	Liquid
Shelf Life	1 Year
Overcoating	45 minutes
Drying Time	2 ltrs
Wather resistance	96 hrs
Coverage Rate	6 m <sup>2</sup> / L
Application Thickness	60 microns
Primer	Zinc-rich Epoxy
Thinning	Yes
Spraying	Yes



Solar Radiation Spectrum



Solar Heat Reflection Curve of R.Cool Vs CONCRETE

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