



AL MUTATHAWIR INSULATION
MATERIALS INDUSTRIES L.L.C.

ADVA COOL

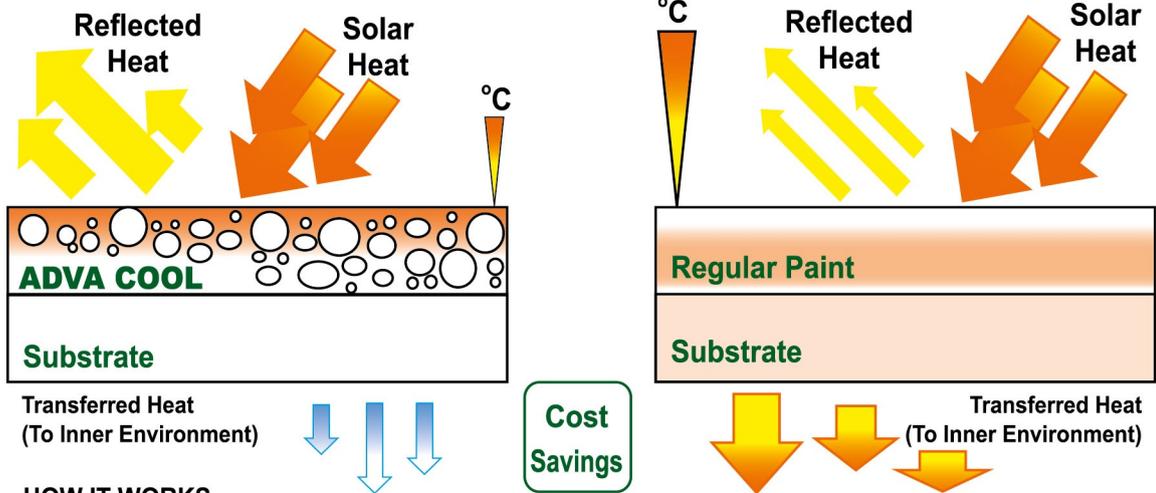
DESCRIPTION

ADVA COOL is a nano-tech high performance insulation coating specially developed for anything under the sun. It is a formulated water-based insulation coating that can effectively lower surface temperature, reduce your cooling costs and create a greener environment by mitigating urban heat effect.

ADVA COOL is environment-friendly, it has ultra-low organic compounds and is free of hazardous substance.

ADVA COOL can be used for any substrate, and applied on exterior surfaces using spray, roll or brush application method.

Colour	White
Solar Reflectance	89%
Emittance	86%
VOC	7.34 g/l
Coverage	2 m ² /l
Flammability	Non-flammable
Shelf-life	2 years



HOW IT WORKS

ADVA COOL uses its certified solar reflectance and emittance properties to greatly reflect the solar heat and efficiently emit th absorbed heat from the roof and facade before the heat can enter your inner environment. Its low thermal conductivity also effectively blocks the heat transfer through the substrate to protect your inner environment from the blazing sun. The 0.3mm thick dense nano particles structure of **ADVA COOL** as an excellent barrier to heat, sound and water.

BENEFITS :

ADVA COOL can effectively reduce the room temperature of your inner environment (e.g. offices, containers etc.) bringing greater thermal comfort, reducing cooling load for the air-conditioner which means saving in electricity and lesser carbon emissions. **ADVA COOL** is the energy saving solution that matters to your operating sostos. comfor and our environment.



PRODUCT APPLICATIONS : Commercial and residential buildings, warehouses, schools, water reservoir tanks, containers, vehicles and vessels.

SURFACE PREPARATION : All surfaces should be washed and deansed of grime. Surfaces should be dry prior to application at ambient temperature of below 80°C (176°F).

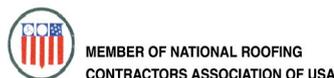
MIXING : No dlution necessary for best performance. Stir **ADVA COOL** thoroughly for about 3 minutes until sticky solutionforms. Cleaning of equipment can be accomplished with water.

APPLICATION METHOD : Spray coating is the best applicator, at recommended pressure of 70 psi. Rolling and brushing should be applied in uni-direction. For best results, two coatings (1-3 hours in between) are necessary and preferably done under dry weather condition to allow coatings to dry sufficiently.

This information given in this data sheet is based on both current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no control over methods of application, site conditions etc.



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TECHNICAL DATA	TEST ITEM	RESULT	TEST METHOD	
	INSULATION :			
	Solar Reflectance	89	C1549 & - 09	
	Emittance	0.86	ASTM C137 - 04a	
	Solar Reflective Index (SRI)	111	Dubai Central Laboratory U.A.E	
	Thermal Conductivity	0.01888 W/m2k	ASTM C518:1991	
	Losar Heat Reflectance	99.3%	ASTM E903:1996	
	Flame Retardant	PASS - Class One Surface Spread of Flame	BS 476:Part 7:1997	
	Flash Point, °C (COC)	No Flash Point Detected	ASTM D92	
	Soffit temperature Difference	Reduce up to 10 - 15°C	Advanced Laboratory	
Accelerated Weathering	PASS - No Cracking	Advanced Laboratory		
WATERPROOFING:				
Solid Content	68.30%	ASTM D1644-01		
Specific Gravity	1.085			
Elongation	566.6%	ASTM D638		
Tensile Strength	8.8 Mpa	ASTM D638		
Crack Bridging	Bridges gap to 2mm	Advanced Laboratory		
Dard Drying Time	45 minutes	Advanced Laboratory		
VOC Content	<10g/L	ASTM D3960		

COVERAGE	WATERPROOFING SYSTEMS	AS PAINT & HEAT INSULATION	AS WATERPROOF & HEAT INSULATION
	1st Coat ADVACOOOL Primer	10m ² / Litre	10m ² / Litre
	2nd Coat ADVACOOOL	2m ² / Litre	1.6m ² / Litre
	3rd Coat ADVACOOOL	2m ² / Litre	1.6m ² / Litre
	Thickness after application	0.3mm	0.7mm



Manufactured By :

Al Mutathawir Insulation Materials Industries L.L.C.

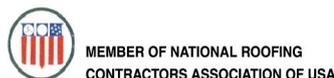
Manufactured In: Sharjah - United Arab Emirates

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