

THERMOPHYSICAL PROPERTIES ProTek-USA' s CRICSSM <i>Reflective Insulating Ceramic Coating Systems</i>	RATING Test results from various independent laboratories and institutions		
REFLECTIVITY	84% Plus (0.9 +)		
EMMISIVITY	94% Plus (0.9 +)		
LUMINOUS RADIATION	90% Plus (0.9 +)		
<p>TRADITIONAL INSULATION</p> <p>Traditionally, insulation problems are solved in one of two ways:</p> <ul style="list-style-type: none"> ❑ Add more insulation (foam and/or fiberboard and/or fiberglass) ❑ Increase the HVAC units, power or capacities to fight the already gained heat inside the buildings 	<p>REFLECTIVE-INSULATING CERAMIC COATINGS</p> <p>THERMAL PROPERTIES of our Coating Systems solve PROBLEMS and provide BENEFITS:</p>		
<p>With traditional insulation, only marginal improvements are obtained. Both the problem and its cause still exist! The Roof surface is still HOT and all thermal extremes associated with that heat build-up still exist. These thermal extremes will lead to:</p> <ul style="list-style-type: none"> • Asphalt and membrane cracking, "alligator skin" and delamination of membrane plies. • Rusting metal roof caused by failure of factory-painted or galvanized steel. • Open seams, due to thermal shock stresses and material failure, resulting in leaks. • Condensation and waterlogged batt insulating material resulting in substantially reduced R-Factor. <p>Other TRADITIONAL INSULATION PROBLEMS: What is the R-Factor of water-saturated (from condensation) fiberglass or foam? What about corrosion, dry-rot and formation of algae and fungi that results from water-saturation? (all nicely covered up by the waterlogged batt insulation - until it is removed or falls off the ceiling!). Expensive utility bills and reduced life from equipment and machinery are the result!</p> <p>REMEMBER: CONDUCTIVE-BASED INSULATION DOES NOTHING TO REDUCE ROOF TEMPERATURE & DETERIORATION.</p>	<p>PROBLEM</p>	<p>SOLUTION</p>	<p>BENEFIT</p>
	<p>Interior Heat Gain</p>	<p>CRICSSM</p>	<p>Increased comfort level and higher productivity, protection of heat-sensitive inventory</p>
	<p>High Energy Costs</p>	<p>CRICSSM</p>	<p>Reduction of Utility bills, lower over-head expenses</p>
	<p>High Cooling Load</p>	<p>CRICSSM</p>	<p>Reduced maintenance costs, increased life of AC equipment</p>
	<p>Heavy use of AC equipment required</p>	<p>CRICSSM</p>	<p>Energy Savings up to 68 % !</p>
	<p>Corrosion</p>	<p>CRICSSM</p>	<p>Corrosion Control-improved structural integrity</p>
	<p>Water Penetration</p>	<p>CRICSSM</p>	<p>Increased life expectancy of roof, preserving existing conventional insulation and its R-Factor, cost effective re-roofing alternative</p>
	<p>Cosmetics-Unattractive building</p>	<p>CRICSSM CRICSSM CRICSSM</p>	<p>Effectively sealing wood and mortar exteriors, long lasting attractive finish, cooler interior, superior and economical alternative to ordinary coatings.</p>