



Kool Roof

Premium White Elastomeric Roof Coating

DESCRIPTION: Kool Roof Bright White Elastomeric Coating is a premium grade, water-based, acrylic elastomeric, “rubber-like” roof coating. Kool Roof is non-toxic, non-hazardous, non-flammable. When properly applied clean, dry, mechanically sound roof Kool Roof will provide years of water-tight protection.

Kool Roof is easily applied with brush, roller or airless spray equipment; it provides a highly protective barrier which will reflect the damaging heat and destructive UV rays from the sun. High solar reflectance can have a significant effect on reducing roof temperatures, which can lead to a reduction of interior temperatures.

SURFACE PREPARATION: All unnecessary and non-functional equipment must be removed from the roof. The substrate must be pressure washed prior to the application of Kool Roof. A minimum working pressure of 1,500 psi should be used to remove all dirt, dust and previous paints & coatings, which are delaminating. Thoroughly rinse roof surface after cleaning. TSP (trisodium phosphate), or appropriate cleaner, can be used along with a deck brush to clean the roof, after which the roof must be thoroughly rinsed with clean water. If the roof has an excess amount of oil or grease, a degreaser may be required and scrubbing with a deck brush may be needed. Rusted metal roofs must be wire brushed and primed with a metal primer/ sealer before Kool Roof is applied.

APPLICATION: First, make sure all repaired areas are sufficiently sealed and dry and that the primer has been applied evenly. Any deficiencies in the roof system must be corrected before proceeding. Choose the morning of a warm day to apply the Kool Roof. Apply with a 3/4” long nap exterior roller or medium bristle latex paint brush. Coating is to be applied in two coats. Ideally, second coat should be applied perpendicular to the first coat. Allow twenty-four hours between coats. Humidity and temperature will vary dry time. On a cool humid day, the dry time will be longer. Care should be used not to over roll or brush coating on to roof surface. DO NOT apply to surfaces with less than 1/2 inch per foot slope. DO NOT apply in a ponding water area. DO NOT apply to any areas where ponding water exists. This product can also be applied with airless spray equipment, 3,000 psi, 2 gpm with a .631 tip.

NOTE: If the roof becomes too hot (over 95°F/ 35°C) during application, it is recommended to delay further application until the next morning when surface temperatures are cooler. Excessive roof temperatures may cause blistering of the coating.

APPLICATION RATES: per coat (three coats required for warranty)

Metal	100 sq.ft./gal
Single-ply	100 sq.ft./gal
Capsheet	80 sq.ft./gal
Asphalt	80 sq.ft./gal

COLOR TINTING: Universal colorants can be used to tint coating to pastel and light colors. Tint to coating ratio is not to exceed 4 ounces of colorant per gallon. NOTE: Field tinting will void manufacturer's warranty.

PRECAUTIONS: Surface to be coated must be clean, dry and mechanically sound. The roof must have positive drainage, NO PONDING WATER AREAS. Roof surface temperatures must be between 50°F - 90°F (10°C - 32°C). DO NOT apply if heavy fog, dew or rain is expected within 24 - 48 hours of application. Do not apply within 4 hours of sun set. Low temperatures and humidity will increase dry times. DO NOT allow liquid coating to freeze. It is recommended that UV resistant sunglasses are used during application. When transporting product, care should be taken to assure that the lid is securely fastened to the bucket and that bucket is in an upright position. DO NOT heat sealed container or store where temperatures reach or exceed 120°F (48°C). Buckets are to be secured so that they do not roll or tumble over, which may cause a leak or other damage. Never transport full or partial buckets in vehicle where passengers are present. Bucket shifting can cause bodily harm. Not recommended for areas where foot traffic may occur.

FIRST AID - KEEP OUT OF THE REACH OF CHILDREN: If swallowed, do not induce vomiting. Seek medical attention immediately. If contact with skin, wash with soap and water. If contact with eyes, immediately flush eyes with clean water for 15 minutes. Seek medical attention if irritation persists.

STORAGE, CLEAN-UP and DISPOSAL: Store unused product in its original, tightly sealed container. Clean tools, hands and small spills with soap and water while wet. Dispose of all containers in accordance with State and local governmental regulations.

WARRANTY: This product is warranted to be free of manufacturer's defects for 7 years when used as part of the Kool Roof System and applied according to our written specifications. If this coating does not perform as stated, Advanced Coating Systems, Inc. will provide the original purchaser, with original merchant sales receipt, replacement coating to repair the affected part of the roof on a prorated basis and does not include labor, freight or other materials mentioned or bearing the cost thereof. This warranty does not cover ponding water or damage, acts of God or causes beyond our control. Roof must have a minimum slope of 1” per foot to be eligible for this warranty. Roof must be cleaned a minimum once per year to maintain this warranty.



Manufactured by Advanced Coating Systems, Inc.


www.kool-roof.com

Ultimate in Cool Roof Protection

Damage resulting from causes beyond normal wear and tear such as (i) unusual weather conditions or natural disasters, including, but not limited to, storms, hail, floods, hurricanes, lightning, tornadoes, and earthquakes; (ii) improper storage or handling of materials on the System; (iii) excessive snow or ice movement; or (iv) fire. Acts of negligence, abuse, accidents, vandalism, falling objects, civil disobedience, war or any other acts beyond the control of ACS, including, but not limited to plant or animal life. Owner's or the building occupant's failure to use reasonable care in maintaining the roof. Conditions that prevent positive drainage that results in ponding water on the roof are all beyond the scope of this warranty.

Our suggested installation specification are based on information for laboratory and field testing, which we believe to be reliable and correct; however, accuracy and completeness of said tests are not guaranteed and not to be construed as a warranty, either express or implied. Since the use of the material is beyond the manufacturers control, buyer assumes all risks whatsoever as to their use or results obtained. We guarantee our products to confirm to Advanced Coating Systems, Inc. quality control. Advanced Coatings Systems, Inc. warrants only the standard quality of material. Manufacturers sole responsibility shall be to replace that portion of the product which is proven to be defective.

Advanced Coating Systems, Inc. makes no other warranty of any kind whatsoever expressed or implied as to the description, quality, merchantability or fitness of any particular purpose and under no circumstances is manufacturer responsible for incidental or consequential damages of any kind to the building upon which the roof is affixed or its contents, loss of rent or profit or any inconvenience. Neither seller nor manufacturer shall be liable of any injury arising from the use of or inability to use the product. There is no express warranties which extend beyond the description on the face there of. Installer is responsible to check the adhesion and compatibility of all Kool Roof products prior to application.

		<u>Initial</u>	<u>Weathered</u>
	Solar Reflectance	0.86	0.78
	Thermal Emittance	0.89	0.87
	Rated Product ID Number	0728	
	Licensed Seller ID Number	0003	
	Classification	Field-Applied Coating	
<small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.</small>			
<small>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</small>			



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PROPERTY	RESULTS
Weight Solids <i>ASTM D1644</i>	57± 1%
Density	10.8 ± .1 lb/ gal
PH	9.0 ± 0.5
Viscosity	115 - 120 KU
Tensile Strength <i>ASTM D2370</i>	240 psi
Elongation <i>ASTM D2370</i>	400%
Permanence <i>ASTM D1653A</i>	24 perms
Water Swelling <i>ASTM D471</i>	24%
Accl. Weathering <i>ASTM D4798</i>	No cracking or splitting
Wet Adhesion <i>ASTM C794</i>	3.0 pli (concrete)
Dry Adhesion <i>ASTM C794</i>	9.0 pli (concrete)
Fungi Resistance <i>ASTM G21</i>	Passes
Low Temp. Flex. <i>ASTM D522</i>	Passes
Vehicle/ solvent	Water
Dry time to re-coat	24 hours

V.O.C. 50 grams per liter

CONTENT:

Water	CAS# 7732-18-5
Titanium	CAS# 13463-67-7
Calcium Carbonate	CAS# 1317-65-3
Zinc Oxide	CAS# 1314-13-2
Ceramic	CAS# 65997-17-3
Acrylic Resin	Trade Secret

Emergency Telephone: INFOTRAC - (800)535-5053



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