

# Arctic Cap HV

Acrylic 50% Solids Topcoat Elastomeric Roof Coating (High Visc)

## Description

Arctic Cap HV is a roller-grade acrylic water-based elastomeric coating. This proprietary formulation cures to form a seamless fluid applied roof membrane which offers the unique ability to extend the life of a roofing system, and lower overall life cycle costs. When applied in white, Arctic Cap HV is highly reflective keeping the roof surface cool and providing protection from UV and other weather exposures.

## Uses

Arctic Cap HV is designed to protect and seal a variety of roof systems and can be used as either a base or surface coating. When the substrate is properly prepared, Arctic Cap HV can be used on BUR and granulated modified bitumen membranes; this product is also approved over most metal roof systems and PVC single ply. Arctic Cap HV can be applied to concrete and most rigid cover boards. Usage to certain substrates may be limited or require additional preparation.

## Standard Colors

Arctic Cap HV is available in White, Grey, Light Tan, Standard Tan, Sedona Tan, and Santa Fe Tan.

Arctic Cap HV in white is highly reflective and exceeds the minimum standards for California Title 24 reflectivity and emissivity, and is ENERGY STAR® rated.

## Typical Physical Properties

1. **Viscosity (cP)** 48,000 – 60,000, **ASTM D2196**
2. **Volume Solids (%)** 50% (±2), **ASTM D2697**
3. **Weight Solids (%)** 64% (±2), **ASTM D1644**
4. **Elongation (%)** 150 (±20), **ASTM D2370**
5. **Tensile Strength (psi)** 250 (±25), **ASTM D2370**
6. **Accelerated Weathering (1,000 hrs)**  
PASS (no cracking; no checking), **ASTM D4798**
7. **Permeance (perms)** 2–4, **ASTM D1653**
8. **Fungi resistance (rating)** 0 (PASS), **ASTM G21**
9. **Tear Resistance (lbf/in)** 95 (±5), **ASTM D624**



## Product Characteristics

1. **Weight per Gal(lb)** 12 (±.5), **ASTM D2939**
2. **Dry Film Thickness @ 1 Gal/100 ft<sup>2</sup> (mils)** 8.2
3. **Dry Time (hours)** 4–6
4. **VOC (g/l)** 50
5. **pH** 10

## Codes and Standards

Can be used to comply with 2016 Title 24 Part 6 Cool Roof Requirements (white only)

CRRC listed (white only)

Energy Star® compliant (white only)




## Packaging

5GA pail, 55GA drum, 220GA tote

## Warranty

KM Coatings manufactures a variety of fluid-applied materials to suit various project needs and offers extended manufacturer's warranties to its Approved Applicator network. Warranty type, Terms and Conditions, as well as coverages, will depend on product(s) utilized and project circumstances under which materials are used. Unless otherwise provided for as part of an extended manufacturer's warranty, Product Liability is strictly limited to manufacturing defects for a period of one year.

	Initial	Weathered
 Solar Reflectance:	.85	.71
Thermal Emittance:	.89	.90
Solar Reflective Index:	107	87
Rated Product ID Number	0754-0004	
Licensed Seller ID Number	0754	
Classification	Field Applied Coating	

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.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Council procedures.

Reported values are applicable to White color only.

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## Application Instructions

### Surface Preparation:

All surfaces to receive coating must be clean, dry and free from any foreign matter such as dirt, oils, grease or other debris that could inhibit the adhesion capabilities of the newly installed products.

Metal surfaces that display rusting or other oxidation, to be prepared with a grinder or wire brush as needed to remove surface contaminants.

Existing roof systems to be visually inspected for conditions that may adversely affect adhesion of performance of newly installed products.

Visually inspect all metal and non-metal flashings, edges, drains, valleys and through-roof penetrations and repair as needed by project conditions.

Do not apply to wet or visibly damp surfaces, or surfaces previously covered with coal tar based products or Kynar® finishes.

Concrete surfaces cured with wax/resin based compounds can inhibit adhesion.

### Application:

Mix well prior to application. To field tint this product, please use a water-based, exterior-grade pigment.

Arctic Cap HV is recommended to be applied with high pressure sprayer for best appearance and coverage, however may be applied by roller or brush applications.

Apply Arctic Cap HV at 24 wet mils (1.5 gallons per 100 square feet) per coat. Typical application conditions require Arctic Cap HV be applied in two coats at 24 wet mils per coat.

Allow coating to dry overnight prior to applying second coat.

To minimize potential voids or pinholes in coating application, apply second coat perpendicular to the first.

Apply only when ambient temperatures are 50°F and rising. Cold weather could result in uneven application and improper curing of product. Do not apply if there is a threat of inclement weather within 24 hours of application.

Do not thin product. Do not heat outside of container. Do not apply at temperatures greater than 120°F.

Prior to using this product on new cap sheets (smooth or granulated), it is recommended to wait 30 days for weathering. Newly applied Asphalt Emulsion can typically be coated once emulsion has cured, usually 5 to 7 days depending on weather and rate of emulsion application.

## Personal Protection

Irritation may result from prolonged or repeated contact with skin.

Wear chemical resistant gloves, protective goggles and protective clothing, if needed.

**Eye Contact** — Immediately flush eyes with water. Get medical attention if irritation persists.

**Waste Disposal** — Empty containers must be disposed of in accordance with local, state and federal regulations.

**For Professional Use Only — Keep out of the reach of children.**

## Storage and Cleaning

Product shelf life: Typically 18 months from date of manufacture when properly stored.

Do not store at temperatures greater than 120°F.

Store 24 hours at room temperature prior to application.

Observe normal safeguards for storing and handling of this product prior to and during application.

Do not allow product to freeze. Discard if any degree of freezing would occur.

Keep containers covered when not in use.

Clean equipment and overspray with water.

Clean hands with waterless hand cleaner.

## Spray Equipment

Arctic Cap HV can be applied by conventional airless spray equipment designed for the purposes of field application of fluids, paints and coatings. The following minimums are recommended:

**Pump:** 1 gal/min output; 2,000 psi

**Gun/Tip:** Airless hand gun with 30 mesh screen. Reversible tip with orifice sizes ranging from .027-.039 and a fan angle of 40° or 50°.

**Hose:** Minimum inside diameter of high pressure nylon hose of 3/8" to 75'; 1/2" to 200'.

Refer to equipment manufacturer product guidelines.

## KM Coatings

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Refer to SDS for specific data and handling of our products.

All data furnished refers to standard production using manufacturing testing tolerances. The product user, and not KM Coatings, is responsible for determining the suitability and compatibility of our products for the user's intended use.