

KM Acryl 85

High Tensile 100% Acrylic 51% Solids Elastomeric Roof Coating (FR)

Description

KM Acryl 85 is a high tensile, superior grade water-based elastomeric coating. This proprietary formulation using 100% acrylic resins cures to form a seamless fluid applied roof membrane. This product has excellent adhesion to polyurethane foam and a variety of other construction and roofing substrates, and can exceed the expected tensile strength of typical acrylic roof coatings. This product provides excellent durability and dirt pickup resistance.

Uses

KM Acryl 85 was developed as a premium coating which can be used over most metal roofs, built-up, modified bitumen, single-ply roof systems, SPUF, concrete, exterior grade plywood, and rigid coverboards. Substrates such as thermoplastic and thermoset membranes may require a primer depending on age and condition.

KM Acryl 85 has excellent exterior durability on roof exposure. Good adhesion to polyurethane foam and many other construction substrates. Flexible at low temperatures. Excellent elongation at temperatures down to -15°F. Excellent dirt pickup resistance. Better hail resistance than typical elastomeric roof coatings. UV light resistance. Excellent toughness to withstand foot traffic and routine rooftop maintenance activities. High solar reflectivity, reducing roof surface temperatures and helping to prolong roof life and reduce energy costs. Low toxicity and odor. Easy application and simple cleanup with water. An adhesion test is recommended prior to product application.

Standard Colors

KM Acryl 85 is available in White, Grey, Light Tan, Standard Tan, Sedona Tan, and Santa Fe Tan.

KM Acryl 85 in white is highly reflective and exceeds the minimum standards for California Title 24 reflectivity and emissivity.



Typical Physical Properties (ASTM D6083)

1. **Viscosity (cP)** 28,000 – 58,000, ASTM D2196
2. **Volume Solids (%)** 52% (±2), ASTM D2697
3. **Weight Solids (%)** 62% (±2), ASTM D1644
4. **Elongation (%)** 360 (±25), ASTM D2370
5. **Tensile Strength (psi)** 570 (±50), ASTM D2370
6. **Permeance (perms)** 6 (±3), ASTM D1653
7. **Water Swell (%)** 12 (±1), ASTM D471
8. **Accelerated Weathering (1,000 hrs)**
PASS (no cracking; no checking), ASTM D4798
9. **Adhesion (psi)** PASS (9 approved substrates),
ASTM C794
10. **Fungi resistance (rating)** 0 (PASS), ASTM G21
11. **Tear Resistance (lbf/in)** 120 (±5), ASTM D624
12. **Low Temp Flexibility after 1000 hours weathering (½" mandrel at -26°C)** PASS,
ASTM D522
13. **VOC:** <50 gm/L

Codes and Standards

ASTM D6083 Standard Specification for Liquid Applied Acrylic Coating Used in Roofing

UL Classified



American Society for
Testing and Materials



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.

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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.

KM Acryl 85 is recommended to be applied with high pressure sprayer for best appearance and coverage, however may be applied by roller or brush applications.

Apply KM Acryl 85 at 24 wet mils (1.5 gallons per 100 square feet) per coat. Typical application conditions require KM Acryl 85 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

KM Acryl 15 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.