

# KM ROOFGRADE

*Reinforced Cementitious Compound*

## Description

KM ROOFGRADE is a water-repellent fiber reinforced skim mortar designed to be applied to areas of standing water on roofs to help promote positive drainage. KM ROOFGRADE is a blend of special binders, fiber, admixtures, selected aggregate, and powder polymers formulated to produce high bond strength, and easy finishing. KM ROOFGRADE is mixed with 1.2 gallons (4.5 L) to 1.3 gallons (4.9 L) of water per 50 pound pail.

## Advantages

- Easy to apply.
- Fast application over most properly prepared surfaces.
- No hazardous chemicals.
- Just add water, properly mix and place.
- Strong and durable.

## Features and Benefits

- Ready-to-use, one-component, just add water, mix and place
- Easy to screed
- Good sag resistance
- Cure within 24 hours
- Paintable within 48 hours
- Self-reinforcing

## Where to Use

- To help create positive drainage on roofs that have low spots.
- To improve the slope of roof at roof top units where the appropriate taper has not been installed and divert water away from curbs.
- May be installed over most roofing materials with proper preparation.

## Limitations

- Minimum ambient and surface temperatures 41°F (5°C) and maximum 95°F (35°C).
- For best results, condition material from 65°F to 85°F (18°C to 29°C) at least 24 hours prior to use.
- Do not add cement or other additives to KM ROOFGRADE.
- Do not apply products containing solvents on KM ROOFGRADE.
- For adverse temperatures, refer to ACI (American Concrete Institute) for hot/cold weather application guidelines.
- In all cases, refer to material safety data sheets (SDS) before use.

## Suitable Substrates

Modified bitumen, built-up, concrete, plywood, and singleply roof systems. Non-granulated substrates require compatible primer with roofing granules adhered to the surface. Contact KM Technical Services for compatible primer.

Properly prepared concrete and mortar surfaces at least 28 days old, gypsum panels, structurally stable, sound and free from dust.

Contact KM Technical Services Department for installation recommendations regarding substrates and conditions not listed for appropriate primers and coatings.



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## Application Instructions

### Mixing:

Choose all appropriate safety equipment when mixing and installing the product. Refer to Safety Data Sheet (SDS) for more information.

Pour 1.2 – 1.3 gallons (4.5 to 4.9 L) of water into a clean bucket and slowly add 50 pounds of KM ROOFGRADE, mixing for approx. 3 minutes.

Mix to a lump-free, homogeneous consistency with a low speed mixer and paddle. DO NOT MIX MANUALLY.

### Product Application:

**Filling low spots:** Pour the mixed material into the middle of the low spot. Using a screed board, evenly spread material across to low section of the roof. Leave excess material in the low area, feather the edges. If the surface of the repair is not going to be coated, apply roofing granules over the area by broadcasting granules over the surface area to refusal. Protect the application by covering with minimum 6 mil thick plastic which will retard the water evaporation while protecting the application. Allow KM ROOFGRADE to dry 48 hours prior to applying coating over the surface or allowing foot traffic over the repair.

**Sloping between drains and scuppers:** Determine the high point, usually half the distance between the drains and screed KM ROOFGRADE in a manner which creates a feathered edge close to the drains and high spot in the middle. If the surface of the repair is not going to be coated, apply roofing granules over the area by broadcasting granules over the surface area to refusal. Protect the application by covering with minimum 6 mil thick plastic which will retard the water evaporation while protecting the application. Allow KM ROOFGRADE to dry 48 hours prior to applying coating over the surface or allowing foot traffic over the repair.

### Cleanup:

Due to the high bond strength of KM ROOFGRADE, it is recommended that tools be washed immediately and before the material sets. Once the mortar has set, clean tools by mechanical means.

## Packaging

50 lb. (22.7 kg) pail

## Product Performance Properties

| LABORATORY TESTS                                  | RESULTS                  |
|---|--------------------------|
| Consistency of mix                                | Thixotropic – trowelable |
| 28 day Compressive Strength – ASTM C942/ASTM C109 | >3,000 psi (20.7 MPa)    |
| 28 day Flexural Strength – ASTM C348              | >1000 psi (6.9 MPa)      |
| 28 day Taber Abrasion – ASTM D4060                | < 2 gr.                  |

## Approximate Coverage

| BATCH             | 50 LB BAG    | 1.25 GAL. WATER |
|-------------------|--------------|-----------------|
| Product Thickness | S.F. per bag | Weight per s.f. |
| ½"                | 15 s.f.      | 5 lbs.          |
| 1"                | 7.5 s.f.     | 10 lbs.         |
| 2"                | 3.75 s.f.    | 20 lbs.         |

Coverage varies depending on the amount of water utilized.

## Product Disclaimer

Unless otherwise incorporated into or part of a supplemental manufacturer's warranty, KM warrants its product(s) against manufacturing defects for a period of 1 year.

Refer to safety data sheet (SDS) for specific data and handling of our products. All data furnished refers to standard production and is given in good faith within the applicable manufacturing and testing tolerances.

Responsibility statement: KM takes responsibility for furnishing quality materials. Neither KM nor its representatives practice architecture or engineering. KM offers no opinion on and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support planned installation, the Owner should obtain the opinion of licensed structural engineer before proceeding. KM accepts no liability for any structural failure or the resultant damages, and no KM Representative is authorized to vary from this disclaimer.

## KM Coatings

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