

ROOFSLOPE™

Sloping Compound for Cap Sheet Roofs

Introduction:

The RoofSlope™ product is an acrylic modified cementitious sloping material designed to create auxiliary slope over traditional Cap Sheet roofs to divert water flow towards drains, scuppers, or an outside edge. The product combines a proprietary blend of cements, and aggregates to achieve a workable, easy to use, sloping compound.

Primary Use:

The RoofSlope™ product provides a quick and easy way to fill in low spots in flat roofs and achieve positive slope to aid in proper drainage. The product provides a durable finish that has the ability to incorporate the appropriate colored granules to match the existing roofing composition. The RoofSlope™ material is excellent for new construction as well as retrofit work to help minimize costly removal and or additional framing expenses required to remedy slope-to-drain issues.

The RoofSlope™ material has the ability to be installed in a single application; necessary to achieve the correction of ponding areas.

Advantages:

- Cost Effective
- Fast Drying
- Extremely Durable
- Easy to install
- Tremendous Bond Strength
- Ability to Match a variety of roof finishes
- Monolithic
- Water-Based
- UV Stable

Color:

The RoofSlope™ product is a bagged good and is gray in color.

Packaging:

The RoofSlope™ bag mix is available in 50 lb. bags.

Physical Characteristics:

Compressive Strength	6,075 psi (ASTM C150-72)
Abrasion Resistance	2.9gr (ASTM D1242)
Percolation	Pass (ASTM Pending)
Bond Strength	Pass (ASTM C297)
Freeze Thaw	Pass (ASTM C67)
Static Coefficient of Friction	Pass (ASTM D635)
Spread of Flame	Class "A" (ASTM E108)
Intermittent Flame	Class "A" (ASTM E108)
Burning Brand	Class "A" (ASTM E108)

Product Weight & Cover Chart:

Product Thickness	Weight per sq. ft.	Batch Mix	Batch Mix Coverage Rate
1/4"	2.5 lbs.	1-50# bag 1 1/4 Gal. Water	30 sq. ft
1/2"	5 lbs.		15 sq. ft
3/4"	7.5 lbs.		11.25 sq. ft
1"	10 lbs.		7.5 sq. ft
1 1/2"	15 lbs.		5.5 sq. ft
2"	20 lbs.		3.75 sq. ft

*The above are estimates, weight & coverage rates will vary.

Shelf Life:

The shelf life of the bag mix is one year from the date of manufacture. Store in cool and dry conditions.

MATERIALS

1. RoofSlope™ Dry Mix (50 lb. Bag)
2. 1 1/4 Gallon Water
3. 16 grit silica sand and or
Colored Granite Roofing Granules

I. General

1. RoofSlope™ material must be applied over a clean and properly functioning cap sheet roofing system.
2. If sloping is to be installed against the wall to roof flashing, flashing must extend 4" above the sloping material. Ensure proper work space is maintained. Sloping should not be built up against any stucco, siding, or exterior finish system.
3. Air temperature for application of the RoofSlope™ Mix must be between 10°C (50°F) and 43°C (110°F) and must remain so for a minimum of 6 hours. Do not allow foot traffic on the areas where the slope mix was installed until fully cured.

NOTE: DO NOT APPLY IN INCLEMENT WEATHER.

II. MIXING INSTRUCTIONS

A. RoofSlope™ Mix

1. Pour 1 1/4 gallon water into a clean 19L (5 gallon) plastic container.
2. Add one (50lb.) bag of RoofSlope™ Dry Mix, and mix thoroughly for 3 to 4 minutes. Use a Wind-lock B-M1 mixing blade, or equivalent, powered by a 13mm (1/2 inch) variable speed drill, capable of producing 1000 RPMs.

III. Installation

A. Sloping Between Scuppers or Drains

1. Mix the RoofSlope™ Mix as described in Section II.
2. Determine a high point between the scuppers or drains and screed the RoofSlope™ using a screed board down to each scupper or drain. Transition to the Cap Sheet should be tapered.
3. Immediately broadcast evenly approximately 15 pounds (per batch mix) of 16 grit silica sand or Colored Granite Roofing Granules into the wet/uncured slope mix until refusal.

B. Sloping Large Areas

1. Mix the RoofSlope™ Mix as described in Section II.
2. Pour the RoofSlope™ mix over the surface and spread it out using a screed board set to the appropriate slope and length. A shim or nail on one end of the screed board can be utilized to create the desired slope.

3. Immediately broadcast evenly, approximately 25 pounds (per batch mix), of 16 grit silica sand or Colored Granite Roofing Granules into the wet/uncured slope mix until refusal.

C. Filling Low Spots

1. Mix the RoofSlope™ Mix as described in Section II.
2. Pour the RoofSlope™ mix into the middle of the low spot (the material should be mixed wet enough to allow materials to self-level).
3. Using a screed board, pull the board across the low spot, leaving the excess slope mix in the low spot of the substrate, and tapper the edges of the perimeter.
4. Once the low spot has been filled in, evenly broadcast 16 grit silica sand or Colored Granite Roofing Granules into the wet/uncured slope mix until refusal.

Limitations:

The RoofSlope™ material is not to be used as a waterproofing material, nor as a product for achieving primary slope. This product is designed to be used over a properly functioning cap sheet waterproof roofing system. The existing roofing application will be responsible for all matters related to the waterproofing. Drying cracks may be visible in the RoofSlope™.

It is the responsibility of the Builder, Architect, or Engineer to perform load/weight calculations, before any sloping is installed. See weight chart. Site conditions/constraints may impair the ability to achieve proper slope. Consult the installer. Ensure negative slope is not created.

Contact RoofSlope™ for any necessary written verification or approvals.

Disclaimer

Information contained in this specification conforms to standard detail and product recommendations for the installation of the RoofSlope™ products as of the date of publication of this document and is presented in good faith. RoofSlope assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To insure that you are using the latest, most complete information, contact RoofSlope at:



**41610 Date St, Suite 104
Murrieta, CA 92562
Tel.: (888) 255-1888
Website: www.roofslope.com**



Auxiliary Sloping Compound for Granulated Roof Membranes

PART I. GENERAL

1.01 Scope

- A. Provide all labor, materials and equipment necessary to apply the RoofSlope™ compound over effective roof membrane area that experiencing ponding water.

1.02 Related Sections

- A. Sealants: Vulkem 931 caulking or equivalent.

1.03 References

- A. ASTM C 150-72: Test Method for Compressive Strength
- C. ASTM D1242: Test Method for Abrasion Resistance
- D. ASTM C297: Tests Method for Bond Strength
- J. ASTM C67: Test Method for Freeze-Thaw Cycling
- M. ASTM D635: Test Method for Static Coefficient of Friction
- N. ASTM E108: Test Method for Spread of Flame
- O. ASTM E108: Test Method for Intermittent Flame
- P. ASTM E108: Test Method for Burning Brand

1.04 Description

- A. RoofSlope™ is a patent pending, proprietary blend of high performance acrylics, aggregates and bonding agents. The RoofSlope product is a stand-alone sloping compound that can be installed over an effective granulated roofing membrane that is experiencing ponding water.

1.05 Submittals

- A. Samples:
 - 1. The installer shall submit samples of the proposed finish to the architect and/or owner for approval.
- B. Manufacturer's Information:
 - 1. Submit manufacturer's data sheet and specification.

1.06 Quality Assurance

- B. Substrates:
 - 1. The RoofSlope™ product installs over a variety of granulated roof surfaces; contact RoofSlope™ for a list of "approved" surfaces.
 - 2. For installations over PVC, TPO, EPDM's, and other single-ply roofing membranes, contact RoofSlope™ for written details.

3. The RoofSlope™ product is designed to be applied over an existing effective roof membrane; the product is not intended to be used as a waterproofing application.

C. Performance Requirements:

1. ASTM C 150-72: Test Method for Compressive Strength
2. ASTM D1242: Test Method for Abrasion Resistance
3. ASTM C297: Tests Method for Bond Strength
4. ASTM C67: Test Method for Freeze-Thaw Cycling
5. ASTM D635: Test Method for Static Coefficient of Friction
6. ASTM E108: Test Method for Spread of Flame
7. ASTM E108: Test Method for Intermittent Flame
8. ASTM E108: Test Method for Burning Brand

1.07 Delivery, Storage and Handling

- A. All materials shall be delivered to the job site in the original, unopened packages with labels intact. Upon arrival, materials shall be inspected for physical damage or freezing. Questionable materials shall not be used.
- B. Minimum storage temperature shall be 4°C (40°F). Maximum storage temperature shall be 43°C (110°F). All materials shall be stored in a dry location, out of direct sunlight and protected from weather and other damage.

1.08 Job Conditions

A. On-Site Conditions:

1. The applicator shall have access to electrical power, clean potable water, and clean work area at the location where the RoofSlope™ materials are to be applied.
2. Other conflicting trades need to be made aware to keep off areas during the application and curing process.
3. All required inspections must be made prior to the installations.

B. Environmental Conditions:

1. The ambient air and surface temperature must be a minimum of 10°C (50°F) and a maximum of 43°C (110°F) and shall remain so for at least 24 hours.

C. Protection:

1. Adjacent areas and materials shall be protected from damage, drops and spills.
2. The RoofSlope™ materials must be protected by permanent or temporary means from weather and other damage, before, during, and immediately after application.
3. The materials shall be protected from weather and other trades which may damage the integrity of the product.

D. Sequencing and Scheduling:

1. Application shall be coordinated with other construction trades.
2. Sufficient labor and equipment shall be employed to ensure a continuous operation.

1.09 Warranty

- A. The RoofSlope™ material is warranted to be free of material defect for a period of ten years; contact RoofSlope™ for details.

1.10 Design Responsibility

- A. The designer selected by the purchaser shall be responsible for all decisions pertaining to design, structural capability, attachment details, weight load restrictions, shop drawings, etc. RoofSlope™ has prepared guidelines in the form of specifications, details, application instructions, and product sheets to facilitate the design process only. RoofSlope™ is not liable for any errors or omissions in design or for any changes, which purchasers, specifiers, designers, or their appointed representatives may make to RoofSlope's published comments.

PART II. PRODUCTS

2.01 General

- A. All products shall be supplied by RoofSlope™ and/or its authorized distributors. Substitutions or additions of other materials will void the warranty.

2.02 Components

- A. RoofSlope DP (gray): A Portland cement, silicon dioxide, acrylic composition.
- C. RoofSlope SP Primer: A one component, low VOC, water-borne base coating designed for application to roofing membranes. (Only to be used in conjunctions with single-ply applications, contact RoofSlope™ for recommended use and applications)
- D. Desired Granules: Desired A1 grit or 16 grit, clean washed aggregate.
- A. Water: Shall be clean and potable.

2.04 Equipment

- A. Mixing shall be done with a clean Wind-lock B-M1 mixing blade or equivalent powered by a 13-mm (1/2") variable speed drill capable of producing 1000 RPM.
- B. Tools
 - 1. Refer to the RoofSlope data sheet for complete application instructions.

PART III. EXECUTION

3.01 Inspection

- A. Examination of Substrate:
 - 1. Ensure that the substrate is structurally sound and free from contaminates. Ensure that the assembly can accommodate the weight of the RoofSlope™ product.

Product Thickness	Weight per sq. ft.	Batch Mix	Batch Mix Coverage Rate
1/4"	2.5 lbs.	1-50# bag 1 1/4 Gal. Water	30 sq. ft
1/2"	5 lbs.		15 sq. ft
3/4"	7.5 lbs.		11.25 sq. ft
1"	10 lbs.		7.5 sq. ft
1 1/2"	15 lbs.		5.5 sq. ft
2"	20 lbs.		3.75 sq. ft

2. Ensure that the existing roofing system functions properly and has a granulated surface, if the surface is not granulated, contact **RoofSlope™** for details.
3. Ensure that all low spots are clearly marked and confirm that constraints are not present that would not allow the product to be installed at the necessary heights as to achieve proper slope.

3.02 Substrate Preparation

- A. Granulated Roof Membrane:
 1. Surface must be clean and free from contaminates.
 2. Puddles may not be on the surface, broom any puddles off the surface to be coated.
- B. Single Ply Membranes:
 1. Contact **RoofSlope™** for details.

3.03 Application

- A. General:
 1. Refer to the **RoofSlope™** system data sheet for complete details.

3.04 Field Quality Control

- A. The applicator shall be responsible for the proper application of the **RoofSlope™** materials.
- B. **RoofSlope™** assumes no responsibility for on-site inspections, application or workmanship.

3.05 Clean-Up

- A. All excess **RoofSlope™** materials shall be removed from the job site by the contractor in accordance with contract provisions.
- B. All surrounding areas, where the **RoofSlope™** materials have been applied, shall be left free of debris and foreign substances resulting from the contractor's work.

Disclaimer:

Information contained in this specification conforms to standard detail and product recommendations for the installation of the **RoofSlope™** products as of the date of publication of this document and is presented in good faith. **RoofSlope™** assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To insure that you are using the latest, most complete information, contact **RoofSlope™** at:

**41610 Date St, Suite 104
Murrieta, CA 92562
Tel.: (888) 255-1888
Website: www.roofslope.com**