



ACRYLIC ELASTOMERIC COATINGS
Recommended Application Procedure for
Reinforced Elastomeric Roof Coating System Over
BUILT-UP ROOFS WITH MINERAL SURFACED CAP SHEET

SOLATEK OVER CAP SHEET

1. PREPARATION

- a. The cap sheet roof must be at least three months old prior to coating.
- b. The surface must be clean, sound, dry and free of any materials that would inhibit proper adhesion of the coating. Achievement of this condition may require scraping, power brooming, power washing with water, vacuuming or other means, and shall always be performed observing normal trade practices.
- c. Any wet areas of roofing must be removed. After drying, replace these areas with similar roofing materials, building it up to the height of the surrounding area. After the removed area is completely replaced and sealed around the edges with a single package polyurethane sealant as approved by coating manufacturer, all newly applied rolled roofing that is still exposed shall be coated with ROOFTEK PREP #3154 or #3154G. Once the ROOFTEK PREP #3154 is dried all the sealed edges shall be coated with SOLATEK and polyester fabric as is described in section 1, paragraph d of these recommendations.
- d. Fill all cracks, voids, holes or other surface imperfections with SOLATEK MASTEKTHANE, or MASTEK acrylic mastic, 4" wide, or wider, polyester fabric shall then be embedded in the wet MASTEK (not necessary with MASTEKTHANE), with a second coat of MASTEK being applied on top of the fabric, at a total rate of 1 gallon per 33 lineal feet for 4" fabric, 22 lineal feet for 6" fabric and 15 lineal feet for 9" fabric. Both the first and second coats of SOLATEK shall extend beyond the edges of the polyester fabric.
- e. All alligatored flashing areas shall be sealed with SOLATEK MASTEKTHANE or MASTEK and polyester fabric as described in section 1, paragraph "d" of these recommendations.
- f. All large blisters shall be cut out, allowed to dry out and then filled with SOLATEK MASTEK and polyester fabric as described in section 1, paragraph "d" of these specifications.
- g. Reseal around all air conditioning units and detail areas as needed, with SOLATEK MASTEK and polyester fabric as specified above.
- h. All loose seams of existing cap sheet system shall be tacked down with square head simplex roofing nails and sealed with SOLATEK MASTEK and polyester fabric as described in section 1, paragraph "d" of these recommendations.

21595 Curtis Street • Hayward, CA 94545
(510) 887-7254 • Fax: (510) 887-5637
www.solatekcoatings.com



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- i. To prevent the deep ponding of water, the entire deck must be well sloped into drains. Design proper slope for drainage if necessary, or install new drains where necessary.
- j. In water ways and areas of excessive ponding, apply SOLATEK BASE GRAY #3151-2 at the rate of 2 gallons per square then immediately embed 40" wide TEK FAB polyester fabric into the wet coating, with a second coat of SOLATEK BASE GRAY being immediately applied on top of the fabric at the rate of 2 gallons per square. Both the first and second coats shall extend beyond the edges of the polyester fabric, or one coat of SOLATEK URETHANE #3182 at a rate of 3 gallons per square.
- k. Allow coating to dry thoroughly, (normally 6-24 hours), before proceeding to application of the coating system as described in section 2 of these recommendations.
- l. Major structural cracks spanning the length or width of the roof should be brought to the attention of the Tresco representative for specific recommendations.

(if a full fabric system is being installed, sections j. and k. are not required, but still recommended.)

2. APPLICATION

- a. The entire roof shall receive the SOLATEK roof re-cover system consisting of the following for:

5-Year Warranty

(18 mils)

- 1. Pressure wash existing roof
- 2. Apply 1 coat of SOLATEK ROOFTEK PREP #3154 GRAY at a rate of 1 gallon per square or clear at a rate of .5 gallons per square
- 3. 3-Course all roof top penetrations using MASTEK acrylic mastic and TEK FAB
- 4. Apply 2 coats of SOLATEK White, IR COLORS or custom color at a rate of 1 gallon per square
- 5. Clean up

10 Year Warranty

(27 mils)

- 1. Pressure wash existing roof
- 2. Apply 1 coat of SOLATEK ROOFTEK PREP #3154 GRAY at a rate of 1 gallon per square or clear at a rate of .5 gallons per square
- 3. 3-Course all roof top penetrations using MASTEK acrylic mastic and TEK FAB
- 4. Apply 2 coats of SOLATEK White, IR COLORS or custom color at a rate of 1.5 gallons per square
- 5. Clean up

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Recommended Application Procedure for
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15-Year Warranty

(36 mils)

1. Pressure wash existing roof
2. Reinforce all field/wall seams, waterways and excessive ponding areas using SOLATEK BASE GRAY or MASTEK & TEK FAB polyester fabric
3. 3-Course all roof top penetrations using MASTEK acrylic mastic and TEK FAB
4. Apply 1 coat of ROOFTEK PREP #3154 GRAY at a rate of 1 gallon per square or clear at .5 gallons per square
5. Apply 1 base coat of SOLATEK BASE GRAY at a rate of 1 gallon per square
4. Over the Base Gray apply 2 coats of SOLATEK White, IR COLORS or custom color at a rate of 1.5 gallons per square
5. Clean up

20-Year Warranty

(63 mils)

1. Pressure wash existing roof
2. 3-Course all roof top penetrations using MASTEK acrylic mastic and TEK FAB
3. Apply 1 coat of ROOFTEK PREP #3154 GRAY at a rate of 1 gallon per square or CLEAR at a rate of .5 gallons per square
4. Apply 1 base coat of SOLATEK BASE GRAY at a rate of 2 gallons per square
5. Immediately embed full sheets of 40" SOLATEK TEK FAB polyester fabric into the BASE GRAY to reinforce entire field, wall and waterway surfaces
6. Immediately apply SOLATEK BASE GRAY at a rate of 2 gallons per square over the polyester fabric
7. Over the BASE GRAY apply two separate coats of SOLATEK WHITE, IR COLORS or custom color at a rate of 1.5 gallons per square
8. Clean up

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2. APPLICATION *continued*

- b. This SOLATEK roof recover system shall extend up any parapet walls high enough so that the edges can be overlapped by a metal cap flashing. Where there is no parapet wall, the system shall be brought to the edges and wrapped over the metal edge by 2”.
- c. At roof edges where there is no parapet wall and no metal edge, install a new metal edge flashing on top of the SOLATEK roof recover system, overlapping all edges of the coating and fabric system. Set the flange of the edge metal into SOLATEK MASTEK acrylic mastic. The metal edge will be nailed every 8” and will be overlapped at the ends a minimum of 2”.
- d. Install metal cap flashing at the top of any parapet walls, overlapping all edges of the SOLATEK roof recover system. If no metal coping caps are available a three-course application of MASTEK acrylic mastic and TEKFAB polyester fabric will be installed over the entire length of the parapet walls completely sealing and reinforcing the wall top.

3. GENERAL

- a. These recommendations assume that the deck, if plywood, has no rotting, and is in good, sound condition.
- b. The entire system shall be fully adhered to the surface it is applied to. Voids left under the system by creating bridges are not acceptable.
- c. Do not proceed with application of coating materials when surface temperature is less than 60°F.
- d. Install all materials in strict accordance with all published safety, weather, or applicable regulations of the manufacturer and/or local, state, and/or federal agencies which have jurisdiction.
- e. No coating shall be applied if weather will not permit it to dry prior to exposure to precipitation or freezing.
- f. Heavy puddles of coating on the roof are not acceptable.
- g. Recommended equipment for spraying are the following Graco pumps: GH 733 or King 45:1. Use a Reverse-a-clean tip with a minimum tip size of .033 up to about .085., Titan flat tips can also be used - #10, #15 and #20 tips are recommended with a 60°fan width.
- h. Instructions for use of all roofing materials and application equipment should be read and followed at all times.

4. MATERIALS

a. The following materials listed in these recommendations are available from
TRESCO PAINT MANUFACTURING COMPANY INC.:

- 1. **SOLATEK MASTEK #3156, MASTEKTHANE #3176**
- 2. **ROOFTEK PREP #3154G** or CLEAR primer
- 3. **TEKFAB** polyester fabric
- 4. **SOLATEK #3181, 3182, 3151 or 3140** topcoats.

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