



## **A-16,500**

# **Flex Mesh Waterproofing System Over Concrete**

### **Description**

This specification includes resurfacing and applying a waterproofing membrane with **Flex mesh** over concrete surfaces. The system creates a flexible and durable finish. The finish can incorporate many different colors, designs and patterns.

### **Limitations**

**Americrete's Flex Mesh System** must be installed on structurally sound concrete.

### **Concrete Substrates**

Concrete surfaces must be free of oils, contaminants, trash, sawdust, etc. and must be structurally sound. This system can be applied directly over existing concrete surface. This system is not approved over plywood that is less than 5/8" thick or over OSB board. Apply over recommended surfaces only. Concrete must have a 1/4" fall per foot (slope).

### **Metal Flashing**

Metal Flashing should be 26 gauge, galvanized metal or better. Flashing shall be clean and rust and/or corrosion free. All oils should be removed with mineral spirits. All wall to deck flashing shall be 4" x 4" or better. Bonderized flashing shall be overlapped by 3" to 4" and caulked with 2 beads top and bottom at all overlapped areas. Vertical and horizontal caulking shall be Sika 1A polyurethane or equal. Facial flashing is to be 2" x 4" bonderized flashing or better with no gravel stop. All flashing is to be nailed every 4" and vertical areas to be nailed at all stud areas, top and bottom.

### **Crickets**

If build-up is required in corners of the deck or between scuppers or drains, prime the surface with **A-300 Concrete Bonder Admix**. Mix **A-900 Waterproofing Basecoat** with one-gallon of **A-300 Concrete Bonder Admix**, and apply mixture at a 45% angle at a 1/4" fall per square foot.

### **Flashing Procedure for Americrete Flex Mesh Waterproofing System**

1. Apply 4" x 4" or 6" x 4" flashing at walls and over threshold areas. Overlap flashing ends by 4 inches, and apply 2 beads of caulking at each seam of the flashing, top and bottom. Nail the flashing every 4 to 6

inches on the flashing laying on the deck surface. Nail at the top (wall side) of the flashing at every stud.



2. End the flashing at a stud, and use 2 nails at all metal seams, top and bottom.
3. If the deck is an open rail deck, at the end of the deck extend the flashing 4 to 6 inches, and bend it around the wall so the stucco paper can be applied over the 4" x 4" flashing.
4. Then apply 2" x 4" fascia flashing at the end of the deck. Remember to caulk and nail all of the areas where metal is overlapping.
5. If stucco is to be applied at the edge of the deck, be sure to leave the flashing  $\frac{3}{4}$  inch beyond the deck to accept the stucco. The stucco should be under the flashing.
6. If no fascia flashing is required, and you have a wall, you must have scuppers, drains, or both and an overflow scupper so the water will drain properly.
7. If drains are required, Americrete approves only galvanized Thunderbird Deck Drains. Never use copper drains, copper scuppers or copper flashing with our metal lath system to avoid electrolysis. If scuppers or drains are required, be sure the distance between each one is no more than 6 feet apart from each other. Install crickets between scuppers mixing one-gallon of **A-300 Concrete Bondor Admix** with one bag of **A-900 Waterproofing Basecoat**. Build up at 45-degree angle to divert water to the drains.

### Notes

#### Drains

Galvanized Thunderbird drains (2" or 3") are mandatory, and should be placed not more than 6 feet apart from each other. They must be nailed and caulking must be placed under and around the drains. If drains are needed, an overflow drain must also be installed. See plans or specifications for your project.

#### Scuppers

Galvanized scuppers 2" x 3" or better, no more than 6 feet apart from each other.

#### Sloping

This can be done mixing one 50-pound bag of **A-900 Waterproofing Basecoat** with 1 gallon of **A-300 Concrete Bondor Admix**. Prime the surface before application with **A-300 Concrete Bondor Admix**. Do not allow the primer to dry before applying **A-900 Waterproofing Basecoat**.

**Flex Mesh System over Concrete**

1. Follow flashing procedures.
2. Mix 1 quart of **A-8100 Waterproofing Primer** to one bag of **A-900 Waterproofing Basecoat** and apply mix to all concrete joints and flashing edges with 6 inch wide piece of **A-1601 6" Flex Mesh** imbedded into the wet **A-900 Waterproofing Basecoat**. Allow to dry.
3. Mix 5½ to 6 quarts of water and 1 quart of **A-8100 Waterproofing Primer** to 1 bag of **A-900 Waterproofing Basecoat**, and trowel or squeegee over the entire surface, completely covering the concrete. Allow to dry.
4. Apply **A-1600 Flex Mesh** over the entire deck and saturate the **A-1600 Flex Mesh** with **A-8100 Waterproofing Primer**. Allow to dry.
5. Mix 5½ to 6 quarts of water and 1 quart of **A-8100 Waterproofing Primer** to one bag of **A-900 Waterproofing Basecoat** and apply over the entire surface with a trowel or squeegee at a rate of 150 square feet per bag. Allow to dry.
6. Mix 5½ to 6 quarts of water and 1 quart of **A-8100 Waterproofing Primer** to one bag of **A-600 Concrete Resurfacer** and apply to the surface at a rate of 150 square feet per bag. Allow to dry.
7. Next, for a textured finish, mix 4½ to 5 quarts of water to 1 bag of **A-800 Texture Finish**.
8. Put the material into a Hopper Gun. Apply the material to the deck with low-pressure and let it set up. Do not allow material to dry, and proceed by knocking down the **A-800 Texture Finish** with a trowel. Use golf shoes or spikes to walk on the surface to prevent footprints in texture. Allow to dry for 24 hours.
9. Apply 2 coats of **A-1100 Texture and Concrete Color Seal** with a roller at a rate of 150 square feet per gallon. Allow to dry between coats.
10. **Stamp Finish Over Waterproofing on Concrete:** After step 6, mist surface with water and apply **A-750 Stamp Primer** to the surface at a rate of 250 square feet per bag. Do not allow the **A-750 Stamp Primer** to dry. Apply **A-700 Stamp Crete** into wet primer, at a rate of 25 square feet per bag or ¼ inch per square foot. Color admix or 1 tube of **A-710 Color Pac** should be added to each bag of **A-700 Stamp Crete** prior to applying to the surface. Allow it to set, and apply **A-1800 Release** with a Hudson Sprayer to the entire area and stamps. Stamp the surface. Do not allow the material to dry before stamping the product.
11. On the following day, clean out unclean grout lines, and lightly scrape the entire surface. Then rinse off with a garden hose.
12. Sponge any shrinkage cracks by using a mixture of water and stamp mix. Sponge into the cracks and let dry.
13. Apply **A-300 Concrete Bonder Admix** to the entire area with a broom at a rate of 200 to 300 square feet per gallon. Allow it to dry.
14. Dampen the surface. Apply **A-1000 Concrete Stain** over the surface with a Hudson Sprayer, and allow it to dry. Highlighting can be done with a sprayer, sponge, etc...

15. Apply two coats of any one of Americrete's sealers **EXCEPT A-1200RS Natural Seal** or **ANY epoxy**.

**Note: Do not apply A-1350 Concrete Shield, A-1400 High Shine, A-1450 High Shine Plus, A-4200 Shine and Seal, A-4201 Matte Finish Sealer, or A-5500 Water Base High Shine to wet or damp surfaces or when precipitation is expected.**

***Note: This system is not to be used over living areas. This system can be used over living areas ONLY if going over concrete substrate.***

***Note: Using any material other than Americrete products on or with any Americrete products will automatically VOID the warranty.***

**Product Warranty:**

Americrete, Inc. blends its products to the highest quality. Warranty does not apply to any persons, company or private individuals who have not attended an Americrete, Inc. training class and/or have not been approved as a Certified Applicator of Americrete, Inc. products. This warranty is limited to the replacement of material (product) for a period of 1 year for single product application and for a period of 5 years for entire system application only if the maintenance has been performed as stated above and the product(s) have been proven to be defective. Product must be applied to manufacturers specifications, and over a sound substrate. There is no warranty for cracking, damage to substrates or replacement of any tangible items. This warranty, dated October 2004, supercedes all previous warranties.

***Note: Americrete products are to be applied only when surface temperatures are at 55 degrees or higher. Do not apply when rain or other precipitation is expected within 24 hours.***