



A-6,000

Broom or Smooth Finish Over Concrete

Description

This specification includes the repair and resurfacing methods used when applying **Americrete** products over cracked, spalled, leaking and deteriorated structures. This method of repair will create a slip resistant surface designed for heavy foot traffic and vehicular traffic. This **Americrete** system can repair the substrate to leave a new broom or smooth finish surface.

Caution

It is imperative that the structure that is to be repaired be structurally sound. Deteriorated, cracked or spalled concrete should be repaired. **Americrete** recommends that all structural concrete substrates be tested for structural integrity and chemical contamination prior to application of any surfacing materials.

Preparation of surface

Americrete will bond to properly cleaned and porous concrete surfaces. Mechanical or chemical abrasion may be necessary in order for **Americrete** to properly adhere to the surface.

Existing Coated Floors

All existing coatings, sealers, curing agents and other foreign materials must be removed by shot blast equipment in order to reveal clean concrete.

Cleaning

Clean floor with **A-100 Degreaser** to remove dirt, grease and oil from the surface. The surface shall be cleaned thoroughly of all contamination by scrubbing the surface with **A-100 Degreaser**. Broom **A-100 Degreaser** evenly over the entire surface. Allow the degreaser to remain on the surface for approximately 30 minutes, and then completely rinse with clean water. Power washing may be necessary. Allow the surface to dry before applying other coatings or sealers.

Surface Stabilization (with Americrete Concrete Prep and Seal)

Chalking, weak or freeze-thaw damaged concrete must be treated to increase concrete strength and reduce vapor transmission. The top surface should be removed and then treated with two coats of A-200 Concrete Prep

and Seal or two coats of A-2250 Concrete Penetrating Sealer (C.P.S). Spray evenly to saturate the surface, but do not allow the material to puddle.

This process will increase concrete strength and reduce moisture vapor emissions substantially. Wait 24 hours before applying any **Americrete** cementitious coating. **Note: If efflorescence continues, repeat this step. Continue only if no efflorescence is present.**

Concrete Prep and Seal penetrating sealer is also used to control moisture vapor, especially with slabs on or below grade.

Surface Repairs

Small repairs and cracks require pre-filling. Large spalls and cracks should be pre-filled prior to resurfacing using **Americrete** Crack Repair Procedure. See Specification number A-17,000 for complete installation instructions.

Surface Leveling

Low areas, surface voids and other irregularities that cannot be repaired using a thin coat application may be repaired using this leveling procedure prior to resurfacing. Use **A-600 Concrete Resurfacer** mixed with 6 to 6 1/2 quarts of water per bag, for any areas from 1/8" or 1/4". For deeper areas, other mixing ratios with larger aggregate may be required.

Thin Set Overlay

Upon completion of repairs, the surface shall be overlaid with minimum of 2 squeegee applications of **A-600 Concrete Resurfacer**. The objective is to apply 2 thin applications without creating a heavy build-up of material and without creating any significant dead load on the structure.

The surface that is being coated shall be kept damp at all times during the application process by using a light spray of water. Do not let water puddle.

The **A-600 Concrete Resurfacer** mixture shall be poured in windrows and spread immediately with squeegees over the surface. Material shall flow toward the operator, leaving no ridges or excess material. Should material run out, apply a light spray of water at the end of the windrow and feather the edge, using a squeegee. When adding new material to the damp windrow, first re-dampen the edge to insure the bond between the new material and old. Remove any ridges or irregularities from the first application using a floor scraper before applying the second coat. Apply the second application when the first application is thoroughly dry. Normally 2 applications can be installed in 1 day if the surface is an exterior surface exposed to full sunlight. Surfaces without full sunlight will require an overnight cure between applications. The finished surface can be a smooth, broom finish or a sandy finish. If an extremely smooth finish is desired, 2 coats of **A-500 Micro Finish** are required or simply sand down the **A-600 Concrete Resurfacer**.

Options

Americrete Flex Mesh

Although **Americrete** products are flexible, structural or moving cracks may reappear as hairline cracks. These hairline cracks are not always visible to the naked eye. Years of field experience in the repair of cracked surfaces have proven that embedding the **A-1600 Flex Mesh** into **A-600 Concrete Resurfacer** will substantially reduce re-cracking over structural surfaces, on or above grade.

Sealer Options

For Vehicular Traffic Areas **ONLY** Use:

A-1400, A-1450, A-4200, A-4201, A-1480, A-1481, A-1350 or A-5500.

For Non-Vehicular Traffic Areas Use:

All the sealers listed above may be applied or any of Americrete's Water Base Sealers: **A-1300, A-1325, A-1330, A-1350, A-1505 or A-5500.**

For a Painted look on Vehicular Traffic Areas Use:

A-1475 for High Traffic or **A-4100** for driveways, garages or light traffic.

For a Natural Concrete Look on Vehicular Traffic Areas Use:

A-1200RS Natural Seal or **A-4201 Shine and Seal – Matte Finish.**

To Stain and Seal use A-1000 or A-2050 Stain. Then seal with any of the above sealers. Use the appropriate sealer for high vehicular traffic. Note: If using A-2050 Enviro Stain, seal the surface first with A-1330 then use one of Americrete's other sealers on top of the Enviro Stain.

Application Procedure

1. V-grind out all cracks. Remove all sealer and curing compounds, be sure the pores of the concrete are open. This can be achieved by bead-blasting or by using **A-250 Acid Etching Gel**. Do not apply **A-600 Concrete Resurfacer** over non-porous surfaces, hard troweled finishes, sealers or curing compounds.
2. Always apply **A-100 Degreaser** to remove oil, at a rate of 300 square feet per gallon, with a stiff bristle broom. Leave on concrete 30 to 60 minutes, and rinse off with a garden hose and/or pressure washer.
3. When the surface is dry, apply **A-200 Concrete Prep and Seal** at a rate of 200 to 300 square feet per gallon, with a low-pressure sprayer. Allow **A-200 Concrete Prep and Seal** to dry for 24 hours. If white efflorescence appears, remove with water and allow to dry for another 24 hours. If efflorescence re-appears, remove with broom and water and wait 24 hours. Repeat the process and

- 24-hour waiting period. Continue to do this until no efflorescence appears.
4. Repair the cracks using the **A-1700 Crack Repair Kit**. Be sure to follow Americrete's **A-17,000 Crack Repair Specification** for detailed application procedure.
 5. Mist the surface with water. Keep the surface damp with **A-300 Concrete Bonder Admix** when going over old concrete. Mix 6 to 6 ½ quarts of water to 1 bag of **A-600 Concrete Resurfacer**. Apply 2 coats of **A-600 Americrete Concrete Resurfacer** to the area by squeegee or trowel, at a rate of 300 square feet per bag. Note: If a broom finish is desired, apply a third coat of **A-600 Concrete Resurfacer** and broom across the fresh material. Surface will not self-level.
 6. Sand to desired smooth finish, if necessary.
 7. The surface can now be stained by applying **A-1000 Concrete Stain** or **A-2050 Enviro Stain** with a low-pressure sprayer at a rate of 300 to 400 square feet per gallon or the surface can be sealed to look like natural concrete. If applying **A-2050 Enviro Stain**, you must seal the surface first with **A-1330 Enviro Stain Sealer** then one of Americrete's other sealers, depending on the surface.
 8. **For VEHICULAR and NON-VEHICULAR traffic surfaces:** Apply 2 coats of one of the sealers listed above in the "Sealer Options" section. Sealer coverage rate and application will vary depending upon product chosen.
 9. **For INDOOR surfaces:** ONLY use **A-7200G Water Base Epoxy**. Apply 1 coat of **A-7200G** and then apply multiple coats of wax.

Note: Do not apply Sealer to wet or damp surface, or when precipitation is expected.

Tips for Application:

1. Make sure the concrete is porous.
2. Patch spalls in the concrete before squeegee coats.
3. Keep concrete misted with water.
4. Always do at least 2 coats of **A-600 Concrete Resurfacer** or **A-601 White Concrete Resurfacer** – Add 1 color pack **A-710** or colorant of your choice to each 50-pound bag of **Concrete Resurfacer**.
5. Always brush out expansion joints.
6. Always seal the surface.
7. Do not use A-1300 or A-1325 or A-1330 as a sealer coat on vehicular traffic surfaces.
8. For INDOOR surfaces: ONLY use **A-7200G Water Base Epoxy**. Apply 1 coat of **A-7200G** and then apply multiple coats of wax.

Material for 300 Square Feet

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| 1. | A-100 Degreaser | 1 gallon |
| 2. | A-200 Concrete Prep and Seal | 1 gallon |
| 3. | A-1700 Crack Repair Kit | 40 linear ft. |
| 4. | A-600 Concrete Resurfacer | 2 bags |
| 5. | Sealer (see options) | 2 Coats |

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.