



Americrete A-600 Resurfacing Specification

Resurfacing Cement Overlay

Description

This specification includes the repair and resurfacing methods used when applying Americrete products over cracked, spalled, 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 concrete finish.

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 to achieve the proper profile. Profile means that the concrete should feel rough, like 80-100 grit sandpaper.

Existing Coated Floors

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

Cleaning

If oil or greasy spots are present clean 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. Do a final clean with TSP cleaner to insure A-100 is totally removed. Power wash surface with a 3000 to 4000 psi machine. Read A-100 Degreaser Specifications for full details.

Vapor Transmittion: The surface should be tested to assure that the vapor transmission is below 3.5 lbs. per 1000 sq. ft. This can be measured by using a Calcium Chloride test kit. Follow directions on the test kit.

A-6300 penetrating Vapor seal epoxy can be used to control moisture vapor and add adhesion by broadcasting skidtex or 30 grit silica sand into the wet epoxy

Refer to technical data sheet A-6300.

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.

Americrete does not guarantee that the cracks will not appear at a later date.

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. Prime surface with A-300. Apply A-600 Concrete Resurfacer mixed with 6 to 6 1/2 quarts of water per bag, for any areas from 1/8" or 3/8". For deeper areas A-900 may be necessary. See A-900 specification sheet.

Thin Set Overlay

Upon completion of repairs, the surface shall be overlaid with a 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.

Directions

Mix 6 to 8 quarts water to one bag of A-600. Squeegee at the rate of 250 square feet per mix. The A-600 Concrete Resurfacer mixture shall be poured in windrows and spread immediately with squeegees over the surface. Pour the material along three outside edges and pull the material, spreading out the A-600 as you follow the poured edges. Continue pulling the material following the edges and wind your way increasingly inward. Leave no ridges or excess material behind as you spread out the A-600. 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. If you go over any expansion joints, take a damp brush and wipe out excess material and place it in front of your squeegee work.

After the surface is dry remove any ridges or irregularities from the application using a floor scraper before applying the second coat. Mix the A-600 as described above and apply the second application when the first coat 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 or broom finish. For a broom finish use a concrete "horse" hair broom or a medium to soft hair push broom and drag the broom backwards through the squeegee 2nd coat of the A-600. Do this immediately after the 2nd coat is spread out.

DO NOT cover any expansion joints. Brush out expansion joints during the squeegee process. After the A-600 is dry clean out expansion joints with a straight blade on an angle grinder for a clean look. Finish with an appropriate joint sealer.

Seal surface with two coats of the appropriate Americrete sealer.

Americrete Flex Mesh

Although Americrete products have a small measure of flexibility, structural or moving cracks may reappear as hairline cracks. Years of field experience in the repair of cracked surfaces have proven that embedding the A-1600 Flex Mesh into A-600 Concrete Resurfacer over cracks 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-4300,

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, PIGMENTED, A-1100, A-1150, A-4100

For a Painted look on Vehicular Traffic Areas Use:

A-1475 for High Traffic areas.

For a Natural Concrete Look on Vehicular Traffic Areas Use:

A-1200RS Natural Seal).
A-4201 or A-1480– Matte Finish.

NOTE: When using 4201 or 1481 the surface must be sealed prior to application due to the matte agent.

Please read and follow individual specification directions on all sealers.

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

Tips for Application:

Make sure the concrete is porous.
Patch spalls in the concrete before squeegee coats.
Keep concrete misted with water.
Always brush out expansion joints.
Always seal the surface.

Product Warranty/Liability Disclaimer

- Since no control is exercised over product use, AMERICRETE represents and warrants ONLY that the products are of consistent quality within manufacturing tolerances for a period of ONE year. NOTE: if Americrete sealers are not used to seal the surface then there is NO WARRANTY implied. Americrete sealers must be applied to the substrate for Americrete to warranty material.

All sales are final. NO other oral or written representation or statement of any kind, expressed or implied, now or hereafter is authorized or warranted by AMERICRETE, including those of marketability or fitness for a particular purpose. Liability for breach of contract, negligence or on any other legal basis is limited to the lesser cost of refund or replacement of material proven to be defective. AMERICRETE, will not be liable for special, incidental or consequential damages, including for delays or lost profits. There is no warranty for product installations, color variations, product delamination or cracks in the surface due to the substrate cracking. The end user shall determine the suitability of the products for the intended use and assumes all risks and liability in connection therewith.

NOTE: If litigation arises the party filing the complaint or law suit will be responsible for all attorney fees and court costs incurred by AMERICRETE, and all other costs related to the investigation of the law suit and/or complaint.

This warranty is effective August 1, 2007, and supersedes any and all previous warranties, written or verbally communicated Note: Americrete products are to be applied only when surface temperatures are at 55°F or higher, not to exceed 100°F. Do not apply when rain or other precipitation is expected within 24 hours.

A five year warranty is available only if requested and Must be written signed and "notarized" by an Americrete officer.