



Americrete A-9,200 SPECIFICATION

Parking Structure Resurfacing

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 vehicular traffic. This Americrete system can repair the entire structure with minimum weight added to the dead load of the structure. This means that Americrete can be used without re-engineering the parking structure.

Surface Preparation

New Floors

Any new concrete shall be allowed to cure for 28 days. If using Americrete Concrete Prep & Seal A-200 as the curing agent – a minimum of 20 days must be allowed before coating. Pressure-wash the surface with a 3000 P.S.I. pressure washer in order to remove any residue or alkali build up prior to the application of Americrete's products.

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.

Surface Preparation of Existing Coated Floors

Remove all existing coatings, sealers, curing agents and other foreign materials by shot blast or grinding equipment in order to reveal porous concrete. Concrete must be porous. Hard trowel surfaces can be treated with A-250 Acid Etching Gel.

Surface Cleaning

Clean and etch the floor with A-100 Degreaser to remove dirt, grease and oil from the surface. Apply with a stiff broom and agitate on concrete. Let set for 30 minutes then rinse with water.

Application

Note: Application is by Approved Applicators only.

Surface Repairs

Small spalls and cracks do not require pre-filling. Large spalls and cracks should be pre-filled prior to resurfacing using Americrete Crack Repair Procedure. Specification number A-17,000.

Straight Edge Method of Leveling

This economical repair method leaves little or no material on high spots but fills surrounding low areas until high spots blend with depressions. The surface is primed with A-300 Concrete Bonder Admix and then a A-600 Concrete Resurfacer mix (Resurfacer mixed with 5-6 quarts of water) is pulled over the surface using a long (14') rubber-faced straight edge with handles on each end. The length of the straight edge is determined by the size of the floor and the number of passes that need to be made. When the first application has thoroughly dried, another application is made in the opposite direction. After the application, remove or flatten any ridges or irregularities caused during application.

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 ensure the bond between the new material and old. Remove any ridges or irregularities from the first application using a floor scraper or pole sander 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.

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 Americrete Flex Mesh A-1600 into A-600 Concrete Resurfacer will substantially reduce re-cracking over structural surfaces, on or above grade.

Application Procedure

1. V-grind out all cracks. Remove all sealer and curing compounds, be sure the pores of the concrete are open; do not apply A-600 Concrete Resurfacer over non porous surfaces, hard trowel finishes or sealer and curing compounds.
2. If oil is present, always apply A-100 Degreaser to concrete areas, 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 hose and then power wash the surface.
3. While the surface is dry, apply A-200 Concrete Prep and Seal at a rate of 300 square feet per gallon, with a low-pressure sprayer. Repair the cracks by using the Americrete Crack Repair Kit A-1700. See Americrete's A-17,000 Crack Repair Specification.

Application Procedure for a Cement Look:

Follow steps 1 – 4 and then:

4. Mist surface with water. Prime surface with A-8100 Waterproofing Primer. While wet, apply by squeegee or trowel one coat of A-600 Concrete Resurfacer and allow to dry 10 to 24 hours. Next, apply A-1600 Flex Mesh over the entire area-saturating surface with A-8100 Waterproofing Primer. Allow to dry. Next, by using a trowel or squeegee, apply a second coat of A-600 Concrete Resurfacer over the entire area covering the mesh completely.
5. If a broom finish is desired, apply a final coat of A-600 Concrete Resurfacer to surface and apply the product with a broom to achieve desired finish.
6. Sealers: Before a sealer is applied, applied A-1000 stain this will help achieve a uniform look.
7. **For Vehicular Traffic Areas ONLY Use:**
A-1400, A-1450, A-4200, A-4201, A-1480, A-1481, A-5600, A-4300,
Pigmented surface coating use: A-7000 epoxy in conjunction with A-1475 polyurethane top coats. Broad cast A-1401 beads into the first coat of wet A-1475 sealer. Encapsulate A-1400 beads with a second application of sealer.

Note: Do not apply any of the above sealers to wet or damp surfaces, or when precipitation is expected within 24 hours.

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 WARRENTY 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 degrees or higher. 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.