



Industrial Flooring Specification

Description

This specification defines the preparation and application procedures to follow in order to install an industrial floor system for heavy use. This system was designed and engineered to achieve a uniform, resilient wearing surface over heavily used floors. It can be used in factories, industrial warehouses, aircraft hangers, department stores, hotels, airports, laundromats, kitchens, etc.

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 72 hours must be allowed before coating. New concrete that is treated with **Concrete Prep & Seal** must cure for 72 hours. 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**. Note: If efflorescence is present, remove with water and allow to dry for 24 hours. If efflorescence continues, repeat this step. Continue only if no efflorescence is present.

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. Remove the contaminated materials and dispose in an approved disposal site.

Surface Cleaning

Clean and etch the floor with **Americrete Degreaser A-100** 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.

Surface Stabilization (with Americrete Concrete Prep & Seal)

Apply 2 applications of **Americrete Concrete Prep & Seal A-200** penetrating sealer to increase concrete strength and reduce vapor transmission. Apply 2 applications of **Concrete Prep & Seal** over the entire surface using a low-pressure sprayer. Saturate the surface – spraying evenly – but do not allow the material to

puddle. Wait 24 hours before applying any **Americrete** cementitious coating.
Note: If efflorescence is present, remove with water and allow to dry for 24 hours.

If efflorescence continues, repeat this step. Continue only if efflorescence is not present.

Crack Repair

See Americrete's Crack Repair Specification A-17,000 for complete instructions.

Filling Spalls and Voids

The surface may require filling or patching prior to surfacing. Prime the surface with **Americrete Concrete Bonder Admix A-300**, and pre-fill any low, voids or spalled areas with **A-600 Concrete Resurfacer**. The proper mix design will be determined by the depth of the repair. Feather all edges to match adjacent grades with a damp brush or trowel.

Application

Re-grading or Re-leveling

The surface may be re-graded or re-leveled as necessary in order for water to flow properly. Low areas should be filled to eliminate water from puddling. Material can be graded in low areas with a straight edge, screeding the material flush with adjacent surfaces.

Preparation

1. Before any of the **Americrete** products are applied over concrete, the slab must be rid of sealers and any type of curing compounds. This can be achieved by mechanical removal, acid wash, bead blast or grinding. The pores of the concrete must be opened before application begins. All cracks should be opened with a crack chaser or a V-blade before the surface is cleaned.
2. **A-100 Degreaser** – All substrates must be cleaned by brooming **Degreaser** onto the concrete slab. Let it set for 30 minutes then rinse with a garden hose or a pressure washer. **Degreaser** will extract oils and other contaminants deep within the pores of the concrete and will provide alkalinity within the concrete substrate.
3. **A-200 Concrete Prep & Seal** – Apply **Concrete Prep & Seal** to the surface with a low-pressure spraying apparatus, at a rate of 250 – 300 square feet per gallon, depending upon the porosity of the concrete substrate. Apply in one direction, and repeat the process in the opposite direction. This will reduce the moisture vapor emissions, and will strengthen the concrete by 20-25% or greater. **A-200 Concrete Prep & Seal** will penetrate the pores of the concrete and will react with the alkalinity and the Portland cement creating a crystal-like barrier. A moisture vapor test should be conducted before and after using **A-200 Concrete Prep & Seal**. Moisture reading levels should be at three or lower before proceeding. Additional applications may be required to

4. achieve the desired vapor emission levels. This procedure will prolong coating life.
5. **A-200 Concrete Prep & Seal** must dry for 24 hours before coating. If efflorescence is present, rinse and allow an additional 24 hours drying time for the **Concrete Prep & Seal** to react. Do not coat the surface if efflorescence continues to appear. After proper preparation has been achieved, you are now ready to apply one of the many **Americrete** coatings.

See Americrete's Crack Repair Specification A-17,000 for complete instructions.

For badly cracked areas, apply **Americrete's Flex Mesh** system over the entire surface. Refer to Specification A-16,000 for details.

Americrete Industrial Floor Finish Application:

1. Follow concrete preparation procedures.
2. Dampen the surface with water, and do not allow it to puddle. Apply **Americrete's Primer/Admix A-375** as a wet primer before application.
3. Apply 2 coats of **A-600 Concrete Resurfacer** over entire area allowing each coat to dry (24 hours) between applications.
4. Apply one coat of **A-6000 Water Base Epoxy**. Allow to dry 24 hours, at a rate of 400 sq. ft per kit.
5. Apply **A-7000 Colored Epoxy** over area at the rate of 300 sq. ft. per kit.
6. Apply one coat for light traffic and two coats for heavy traffic of **A-1475 Colored Polyurethane**.

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.