

SIDER-BASE CONCENTRATE AAC / SIDER-PLAST FINISH

THE ULTIMATE AERATED CONCRETE DECORATIVE SYSTEM

1.0 DESCRIPTION

1.1 General

The combination of Sider-Base Concentrate AAC and Sider-Plast Finish is the ultimate traditional approach in exterior decorative coating specifically designed for aerated concrete. The unique and revolutionary lightweight composition and reinforcing fibers of Sider-Base Concentrate AAC combined with the very specific color formulation of Sider-Plast Finish, yield a durable, fade resistant, colored finish to be applied by hand troweling or machine spraying directly over aerated concrete. The vibrant colors provided by Sider-Plast Finish are available in 40 standard tints while custom colors are available upon request. The precise blend of calibrated sand, fibers and chemical additives, allows for vapor permeability and superb resistance to temperature variations.

2.0 MATERIALS

2.1 Sider-Base Concentrate AAC

Sider-Base Concentrate AAC is mainly composed of white cement, hydraulic binders, reinforcing fibers, additives (water repellent agents, UV resistant agents) and proprietary admixture providing lightweight and flexibility. Sider-Base Concentrate AAC is available as a 55 pounds (25 kg) factory blended bag only requiring the addition of potable water and masonry sand at the job site.

2.2 Sider-Plast Finish

Sider-Plast Finish is an acrylic binder base textured finish composed of rust-free aggregate and integrally colored with high quality pigments. Sider-Plast Finish is provided ready-to-use in a 65 lb. (29.5kg) plastic pail.

2.3 Glass Fiber Fabric

A nominal 4.8 ounce per square yard, symmetrical, interlaced, open-weave glass fiber fabric mesh made with minimum 25 percent by weight alkaline resistant fiberglass fiber

is to be used with the installation of Sider-Base Concentrate AAC over cracks in aerated concrete or stress areas.

2.4 Accessories

Corner reinforcements, expansion joints, casing beads, etc., are made from rigid vinyl or zinc coated (galvanized) designed for exterior use

2.5 Accessories Fasteners

Use fasteners recommended by aerated concrete manufacturers.

2.6 Caulk

The acrylic latex sealant shall be in compliance with ASTM C 834. Penetrations through the coating shall be caulked to prevent water infiltration. Allow 3 to 4 days minimum dry time prior to installing the sealant.

3.0 MIXING INSTRUCTIONS

3.1 Sider-Base Concentrate AAC

Mix in a clean standard stucco mixing machine for no less than 5 minutes in the following steps to achieve a consistent, homogeneous mix:

- Adequate amount of water for a thick workable mud
- 1 bag of Sider-Base Concentrate AAC
- 2 to 3 parts sand (by weight: 2 full '5 gallon buckets= \sim 10 heaping square shovels)

Do not over-mix. Repeat the mixing procedure and add the same amount of water with every batch. Do not re-temper the material in the mixer nor use partially set or frozen material in the mix.

3.2 Sider-Plast Finish

Stir using a 1/2 in. drill with a clean paddle to obtain a homogeneous consistency. Avoid over mixing and air entrainment. A small amount of clean water may be added to aid workability. Do not add more than 8 oz. (1 cup) per pail. Repeat the mixing procedure and add the same amount of water with every batch to avoid color variation.

4.0 INSTALLATION OVER AERATED CONCRETE

4.1 Surface Preparation

Surfaces must be free of all bond-inhibiting materials, including dirt, efflorescence, from form oil and other foreign particles. Paint, loose or damaged material must be removed by water blasting, sandblasting or mechanical wire brushing and repaired. Irregular surfaces must be resurfaced and leveled to required tolerance and smoothness. Holes in aerated concrete and broken material shall be patched and repaired to required tolerance. Install accessories including corner beads to all corners of aerated concrete or areas to be reinforced and plaster stops to all terminations of Sider-Base Concentrate AAC & Sider-Plast Finish. Wet the aerated concrete surface with water preferably using a garden hose shortly before application of Sider-Base Concentrate AAC. The aerated concrete should still be damp to the touch, but not wet at the time of the application. The use of SiderResin M50 primer is recommended prior to the application of Sider-Base Concentrate AAC. Mark all high stress areas and cracks in aerated concrete. These areas will require reinforcing mesh in Sider-Base Concentrate AAC.

First Step: Base Coat - Sider-Base Concentrate AAC Application

Trowel Application

Apply Sider-Base Concentrate AAC directly over aerated concrete or masonry surface with a clean, stainless steel trowel in one coat at a thickness of 1/4" (inch) (6mm) to 3/8" (inch) (9.53mm) minimum thickness according to substrate and surface conditions. Where mesh reinforcement is required, embed the mesh in Sider-Base Concentrate AAC. Once applied the working time is up to 20 minutes according to ambient temperatures and surface condition. Trowel Sider-Base Concentrate AAC slick or sand float to create an even and plumb surface to receive Sider-Plast Finish and allow to dry for a minimum of 48 to 72 hours during dry conditions.

Spray Application:

Apply Sider-Base Concentrate AAC with a conventional plaster pump (refer to section 5.7 for pump information) directly over the aerated concrete surface. Hold the spray nozzle at the same distance and move with a steady, even stroke building to the desired thickness. Apply an even coat to ensure full coverage in a one coat for a total thickness of 1/4" (inch) (6mm) to 3/8" (inch) (9.53mm) minimum thickness according to the substrate and surface conditions.

Once applied the working time is up to 20 minutes according to ambient temperatures and surface condition. Trowel Sider-Base Concentrate AAC to required tolerance. Then

allow to dry for a minimum of 3 to 7 days during dry conditions prior to application of finish coat.

Important: Apply Sider-Base Concentrate AAC in a continuous application, always working to a wet edge to eliminate cold joints. Arrange for the completion of an entire area. Avoid installation in direct sunlight and during periods of high winds. It is recommended that newly applied Sider-Base Concentrate AAC be fogged and kept damp for 24 to 48 hours.

Limitations

Apply Sider-Base Concentrate AAC when surface and ambient temperatures are above 45°F (8°C) and below 95°F (35°C) during application and drying period. Do not apply to overheated, excessively dry or frozen substrates, nor during periods of high winds. Sider-Base Concentrate AAC should not be applied on horizontal, below grade or water immersed surfaces. Distance to grade varies with climate. Allow sufficient distance to prevent dirt, snow, ice and puddling water to be in contact with the coatings. Parapets should be protected with coping. Protect the coating from rain, freezing for at least 24 hours and from uneven and excessive evaporation during hot temperatures by moist curing. Due to the natural ingredients which make-up Sider-Base Concentrate AAC or the nature of the substrate, the development of efflorescences may naturally occur and appear on the surface of Sider-Base Concentrate AAC.

Second step: Finish Textured Coat – Sider-Plast Finish Application

Surface Preparation

It is recommended to prime Sider-Base Concentrate AAC surface with Sider-Plast Primer. Sand finish textures may not require primer application. However, sprayed textures and swirl textures shall require primer coat to prevent appearance of Sider-Base Concentrate AAC through finish coat. Surface should be free of all bond-inhibiting materials and dry.

Trowel Application

Apply Sider-Plast Finish using a clean stainless steel trowel and apply a uniform coat the thickness of the largest aggregate size of the finish. Drying time is 24 hours under normal conditions.

Texturing Swirl and Sand Finishes

Use a clean plastic float, wipe frequently and apply moderate pressure with consistent motion, rolling the large aggregates to obtain the desired texture.

Important: Apply Sider-Plast Finish in a continuous application, always working to a wet edge to eliminate cold joints. Arrange for the completion of an entire area. Keep buckets closed when not in use.

Limitations

Apply Sider-Plast Finish when surface and ambient temperatures are above 45°F (8°C) and below 90°F (35°C) during application and drying period. Do not apply to overheated, excessively dry or frozen substrates. Provide adequate protection against rain during the application.

5.0 MISCELLANEOUS

5.1 Packaging

Sider-Base Concentrate AAC: 55 lb. (25kg) bag of powder in paper bag with moisture barrier.

Sider-Plast Finish: 65 lb. (29.5kg) plastic pail.

5.2 Coverage

70 to 80 Square feet per Sider-Base Concentrate AAC bag at 3/8 “

Sider-Plast Finish:

Coarse Sand: 70 - 80 square feet

Fine Sand: 125-130 square feet

Fine Swirl: 100-110 square feet

Sprayed Smooth: 150-200 square feet

5.3 Storage and Shelf Life

Shelter in a dry environment from extreme heat, direct sunlight, rain and freezing. Shelf life is 6 months in the original sealed packaging properly sheltered.

5.4 Control Joints

Install control joints as specified by the design professional or builder. As a minimum, control joints are required in areas where structural movement occurs and at building expansion joints.

5.5 Professional Qualifications

Installation shall be performed by contractors with a minimum of 5 years documented experience in cement plastering or approved by Sider-Oxydro, Inc. All applicators should be able to provide several references from general contractors, architects or other applicable references for review by Sider-Oxydro, Inc.

5.6 Technical Assistance

A Sider-Oxydro, Inc. master craftsman can start up the site at the expressed request of the customer according to prearranged terms and conditions. For technical inquiries during normal business hours Contact Sider-Oxydro, Inc. at **(1) 478-892-9800**.

5.7 Spray Equipment

Recommended plaster pumps and manufacturers

- Rotor/Strator Pumps & Mixers by Putzmeister or PFT
- And most mortars and plasters sprayers and mixers.

Contact Sider-Oxydro, Inc. for availability and additional information.

5.8 Clean Up

Sider-Base Concentrate AAC & Sider-Plast Finish clean up with water before drying. Clean tools and equipment after use with water. Clean up and remove all debris and materials from the site caused by the installation according to federal, state and local regulations and dispose of waste in an approved landfill.

5.9 Commercial Names

SIDER-BASE CONCENTRATE AAC

SIDER-PLAST FINISH