



# **SIDER-BASE CONCENTRATE AAC/ SIDER-PLAST**

## **THE ULTIMATE AERATED CONCRETE-AAC DECORATIVE ACRYLIC STUCCO 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 acrylic decorative coating specifically designed for aerated concrete-AAC. **Sider-Base Concentrate AAC** also offers the flexibility to be used over metal lath fastened to open framing or a variety of masonry surfaces. The unique and revolutionary lightweight composition and reinforcing fibers of **Sider-Base Concentrate AAC** combined with the very specific integral 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 integral color provided by **Sider-Plast Finish** is available in different size aggregate and is available in 18 attractive integral colors 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 the ultimate concentrated base-coat specifically formulated for Aerated Concrete (AAC). The cost-saving of its concentrated formulation and the unique and revolutionary light weight composition and reinforcing fibers of **Sider-Base Concentrate AAC** yield a strong base coat to be applied by hand, troweling or machine spraying, directly over aerated concrete.

#### **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. (29.5 kg) plastic pail.

#### **2.3 Reinforcing Mesh**

A nominal 4.8 ounce per square yard, symmetrical, interlaced, open-weave polyester fabric mesh made with minimum 25 percent by weight is to be used with the installation of **Sider-Base Concentrate AAC** over cracks in aerated concrete, stress areas and over structural panel joints.

## **2.4 Accessories**

Corner reinforcements, expansion joints, casing beads, etc., are made from rigid vinyl approved for use on AAC surfaces.

## **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 coarse stucco sand (by weight: 2 full '5 gallon buckets = ~ 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 ½" 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** and **Sider-Plast Finish**. Wash the aerated concrete surface with water to remove dust and other bond-inhibiting residue before 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: Basecoat - Sider-Base Concentrate AAC Application**

#### **Trowel Application**

Apply **Sider-Base Concentrate AAC** directly over the aerated concrete or masonry surface with a clean, stainless steel trowel in one coat at a thickness of 3/8" (9.5 mm) to ½" (12 mm)

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** to create an even and plumb surface to receive **Sider-Plast Finish** and allow drying 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 3/8" (9.5 mm) to 1/2" (12 mm) 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 drying for a minimum of 24 to 48 hours (dependent on ambient 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. It is recommended that newly applied **Sider-Base Concentrate AAC** be fogged and kept damp for 24 to 48 hours.

### **Second step: Finish Textured Coat – Sider-Plast 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-Base Concentrate AAC** and **Sider-Plast Finish** 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 substrate, or during periods of high winds. **Sider-Base Concentrate AAC** and **Sider-Plast Finish** should not be applied on horizontal, below grade or water immersed surfaces. Distance to grade varies with climate and local building codes. 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** and Sider-Plast Finish or the nature of the substrate, the development of efflorescence may naturally occur and appear on the surface of **Sider-Base Concentrate AAC** and **Sider-Plast Finish**. Please refer to the maintenance specifications for clean up.

## **5.0 MISCELLANEOUS**

### **5.1 Packaging**

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

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

### **5.2 Coverage**

50 Square feet per **Sider-Base Concentrate AAC** bag at 3/8"

#### **Sider-Plast Finish:**

Coarse Sand: 80-90 square feet

Fine Sand: 125-130 square feet

Fine Swirl: 110-115 square feet

Sprayed Smooth: 150-200 square feet

(Coverage is approximated and is given for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions and application techniques.)

### **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-Crete, Inc. All applicators should be able to provide several references from general contractors, architects or other applicable references for review by Sider-Crete, Inc.

### **5.6 Technical Assistance**

For technical inquiries during normal business hours, contact Sider-Crete, Inc. toll free at **888-743-3750**.

### **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-Crete, Inc. for availability and additional information.

## **5.8 Clean Up**

**Sider-Base Concentrate AAC** and **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**

*And now, enjoy using **SIDER-BASE CONCENTRATE AAC** and **SIDER-PLAST FINISH** and benefit from this revolutionary technology developed by Sider-Crete, Inc., leaders of technological advancements for the construction industry since 1937.*

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