

POWERBASE AAC

POLYMER MODIFIED LEVELING AND SMOOTHING COAT FOR AUTOCLAVED AERATED CONCRETE

1.0 DESCRIPTION

1.1 General

PowerBase is a durable polymer-modified leveling product for interior or exterior autoclaved aerated concrete surfaces. PowerBase AAC is also suitable for use over concrete blocks, poured concrete and all masonry surfaces without reinforcement. Specifically designed for Power Panels, PowerBase performs like a protective skin that will not trap moisture. Non-shrink formula, PowerBase is ready for a finish coat within 24 to 48 hours.

2.0 MATERIALS

2.1 PowerBase

An acrylic co-polymer base, PowerBase is mainly composed of white cement, aggregates, hydraulic binders, reinforcing fibers, additives (water repellent agents) and proprietary admixture providing flexibility. PowerBase is available as a 55 pounds (27kg) factory blended bag only requiring the addition of potable water at the job site.

2.2 Glass Fiber Fabric

A nominal 4.5 or 6.0 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 PowerBase over Power Panels. AAC blocks or standard panels do not require the installation of mesh over the entire surface.

2.3 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

1. PowerBase AAC

Approximately 6 to 7 quarts (1 3/4 gallons) of clean cool potable water is to be added per bag of Powerbase AAC. Mix in a clean pail with a 1/2 “drill and paddle for 3 to 4 minutes to yield good plasticity and a homogeneous mix. Allow mix to rest for 3 to 4 minutes then remix adding water to adjust workability. Do not re-temper the material nor use partially set or frozen material in the mix.

4.0 SURFACE PREPARATION

4.1 Autoclaved aerated concrete surface

Autoclaved aerated concrete 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. Irregular surfaces must be resurfaced and leveled to required tolerance and smoothness. Wash AAC surface with clean fresh water in event of excessive dust deposit or at time of high temperatures.

5.0 Application

5.1 PowerBase AAC

Apply PowerBase AAC directly over the autoclaved aerated concrete or masonry surface with a clean stainless steel trowel. Apply pressure to ensure complete adherence with AAC or masonry surface. Two coats are recommended in order to ensure complete coverage of the blocks joints. **It is mandatory to embed a 6 oz polyester mesh over the entire AAC surface when applied over AAC Power panels or cement board substrates.** A reinforcing mesh embedded in AAC is not required when applied over AAC blocks, AAC panels, concrete blocks or poured concrete. Over AAC Power Panels, apply PowerBase to a uniform 1/16” to 1/8”. Lay standard mesh immediately over wet PowerBase and trowel into place. Allow first coat of PowerBase to dry to the touch. Then trowel a second coat and level to achieve a smooth base coat. No pattern of the mesh should be visible beneath the surface of PowerBase.

Limitations

Apply PowerBase 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, nor during periods of high winds. PowerBase should

not be applied 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. Due to the natural ingredients that make-up PowerBase AAC or the nature of the substrate, the development of efflorescences may naturally occur and appear on the surface of PowerBase.

5.2 Finishes

Interior: Durastone (Quartz finish) by SIDER-OXYDRO, Inc.

Latex paint

Wallpaper

SiderGyp (Interior white coat plaster) by SIDER-OXYDRO, Inc.

Exterior: Monosideral (Colored Stucco) by SIDER-OXYDRO, Inc.

Sider-Plast (Acrylic Finish) by SIDER-OXYDRO, Inc.

Exterior grade paint

6.0 MISCELLANEOUS

6.1 Packaging

PowerBase: 55 lb. (27kg) bag of powder in a 3-ply paper bag with moisture barrier.

6.2 Coverage

60 to 70 square feet per PowerBase bag at 1/8" (3mm) thickness

6.3 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.

6.4 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.

6.5 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.

6.6 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 (Eastern Time) Contact Sider-Oxydro, Inc. at **478-892-9800**.

6.7 Clean Up

PowerBase & 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.

6.8 Commercial Names

POWERBASE AAC