



**SIDER-CRETE, INC.**

153 Regur Road  
Hawkinsville, GA 31036 – USA

Ph: 478.892.9800

www.sider-crete.com

# **POWERBASE ICF/ SIDER-PLAST FINISH**

## **THE ULTIMATE FINISH SYSTEM FOR CEMENT BOARDS AND CONCRETE FORM SYSTEMS (ICF)**

### **1.0 DESCRIPTION**

#### **1.1 General**

The combination of **Powerbase ICF** and **Sider-Plast Finish** is the ultimate traditional approach in exterior decorative finish system specifically designed for insulated concrete wall systems. The unique and revolutionary lightweight composition and reinforcing fibers of **Powerbase ICF** 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 insulated concrete forms, or cement boards. The consistent vibrant colors provided by **Sider-Plast Finish** are available in 40 standard tints while custom colors are available upon request. The precise blend of Portland cement, calibrated sand, fibers and chemical additives, allows for vapor permeability and superb resistance to temperature variations.

### **2.0 MATERIALS**

#### **2.1 Powerbase ICF**

An acrylic co-polymer base, **Powerbase ICF** is mainly composed of white cement, aggregates, hydraulic binders, reinforcing fibers, additives (water repellent agents, etc...) and proprietary admixture providing flexibility. **Powerbase ICF** is available as a 55 lb. (27 kg) factory blended bag only requiring the addition of potable water 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. (29.5 kg) 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 **Powerbase ICF/Sider Plast** system over the entire surface to be finished.

## **2.4 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 Powerbase ICF**

Approximately 6 to 7 quarts (1 3/4 gallons) of clean cool potable water is to be added per bag of **Powerbase ICF**. 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.

### **3.2 Sider-Plast Finish**

Stir using a 1/2" 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 SURFACE PREPARATION**

### **4.1 Block or expanded polystyrene**

Insulation board or block 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 using **Powerbase ICF**.

## **5.0 Application**

### **5.1 First step: Base coat – Powerbase ICF**

Apply **Powerbase ICF** directly over insulation wallboard or block with a clean, stainless steel trowel to a uniform thickness of 1/16" (1.5 mm) to 1/8" (3 mm). Lay standard 6 oz. mesh immediately over wet **Powerbase ICF** and trowel into place. Allow first coat of **Powerbase ICF** with embedded mesh to dry for 24 hours before the application of the finish coat. The mesh should be fully embedded and no pattern of the mesh should be visible beneath the surface of **Powerbase ICF**.

### **Limitations**

Apply **Powerbase ICF** 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. **Powerbase ICF** should not be applied 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. Due to the natural ingredients which make-up **Powerbase ICF** or the nature of the

substrate, the development of efflorescence may naturally occur and appear on the surface of **Powerbase ICF**.

## **5.2 Second Step: Finish Textured Coat - Sider-Plast Finish**

Using a clean stainless steel trowel, apply a uniform coat of **Sider-Plast Finish** the thickness of the largest aggregate size of the finish.

### **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 95° F (35° C) during application and drying period. Do not apply to overheated, excessively dry or frozen substrates. Provide adequate protection against rain during and after application.

## **6.0 MISCELLANEOUS**

### **6.1 Packaging**

**Powerbase ICF:** 55 lb. (25 kg) bag of powder in a 3-ply paper bag with moisture barrier

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

### **6.2 Coverage**

55 to 65 square feet per **Powerbase ICF** bag at 1/8" (3 mm) thickness

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

Coarse Sand: 80 - 90 square feet

Fine Sand: 125-130 square feet

Fine Swirl: 110-115 square feet

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

### **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-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.

## **6.6 Technical assistance**

For technical inquiries during normal business hours (Eastern Time) Contact Sider-Crete, Inc. at **(1) 478-892-9800**.

## **6.7 Clean Up**

**Powerbase ICF** 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.

## **6.8 Commercial Names**

**POWERBASE ICF**

**SIDER-PLAST FINISH**

*And now, enjoy using **POWERBASE ICF** and **SIDER-PLAST FINISH** and benefit from this revolutionary technology developed by Sider-Crete, Inc., innovative leaders in the construction industry since 1937.*

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