



# POWERBASE ICF/ POWER-KOTE

## THE “OLD WORLD” FINISH SYSTEM FOR FIBER BOARDS, CEMENT BOARDS AND CONCRETE FORM SYSTEMS (ICF).

### 1.0 DESCRIPTION

#### 1.1 General

The combination of **Powerbase ICF** and **Power-Kote Finish** is the ultimate traditional approach in exterior decorative finish system specifically designed for insulated wall systems. The unique and revolutionary lightweight composition and reinforcing fibers of **Powerbase ICF** combined with the very specific integral color formulation of **Power-Kote Finish**, yield a durable, fade resistant, colored “Old World” finish to be applied by hand troweling or spraying directly over a variety of fibered, cement or insulated boards. The mottled coloring effects provided by **Power-Kote 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) and proprietary admixture providing flexibility. **Powerbase ICF** is available as a 55 lb. (25 kg) factory blended bag only requiring the addition of potable water at the job site.

#### 2.2 Power-Kote Finish

**Power-Kote Finish** consists of a factory blended white Portland cement with pigments, additives (water repellent agents, UV resistant agents) and proprietary admixture providing flexibility. **Power-Kote Finish** is available as a 55 lb. (25 kg) bag of factory blended pre-sanded mix requiring only the addition of potable water at the job site.

#### 2.3 Glass Fiber Fabric

A nominal 4.5 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/Power-Kote** 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 or stucco mixer 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 Power-Kote Finish

Approximately 6 quarts (1 1/4 gallon) of clean potable water is to be added per bag of **Power-Kote Finish**. Mix in a clean standard stucco mixer or pail with a drill and paddle for a maximum of 5 minutes to yield good plasticity and a homogeneous mix. Do not over-mix. For best results, pour 10 quarts (2.5 gallons) of potable water in the mixer, followed by 2 bags of **Power-Kote Finish**. Then add the remaining required water and 2 more bags. Allow to mix until a good homogeneous mix is achieved. Repeat the mixing procedure and add the same amount of water with every batch to avoid color variations. Do not re-temper the material in the mixer nor use partially set or frozen material in the mix. This may cause color variation.

## 4.0 SURFACE PREPARATION

### 4.1 Fibered or cement boards

Boards 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.

### 4.2 Extruded polystyrene

Rasp entire surface of extruded polystyrene. The use of a power rasp is recommended. Surface 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.

## 5.0 Application

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

Apply **Powerbase ICF** directly over 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 4.5 oz mesh immediately over wet **Powerbase ICF** and embed into place with a trowel. Level **Powerbase ICF** to achieve a smooth base coat with a total thickness of 1/8" (3 mm) to 5/32" (4 mm). The mesh should be fully embedded and no pattern of the mesh should be visible beneath the surface of **Powerbase ICF**. Allow **Powerbase ICF** to fully dry before application of **Power-Kote Finish**.

## 5.2 Second step: Finish Textured Coat – Power-Kote Application

### Trowel Application

Apply **Power-Kote Finish** directly over **Powerbase ICF** surface with a clean, stainless steel trowel in one coat at a thickness of 1/8” (3 mm) to 3/16” (4 mm) maximum thickness according to substrate and surface conditions. **Power-Kote Finish** can also be applied in two successive coats (Double back technique). Double back application method will allow longer working time and a more consistent color. Once applied the working time is up to 20 minutes according to ambient temperatures and surface condition. Trowel **Power-Kote Finish** to required tolerance. A fine sand finish texture may be achieved using a sponge, wood or plastic float.

### Spray Application:

Apply **Power-Kote Finish** with a conventional plaster pump (refer to section 5.7 for pump information) directly over the **Powerbase ICF** 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 3/16” (4 mm) to 1/8” (3 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 **Power-Kote Finish** to required tolerance and texture with a sponge, wood or plastic float.

**Important:** Apply **Power-Kote Finish** 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

### Limitations

Apply **Powerbase ICF** and **Power-Kote 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. **Powerbase ICF** and **Power-Kote Finish** 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 **Powerbase ICF** and **Power-Kote Finish** or the nature of the substrate, the development of efflorescences may naturally occur and appear on the surface of **Powerbase ICF** and **Power-Kote Finish**. Please refer to the maintenance specifications for clean-up.

## 6.0 MISCELLANEOUS

### 6.1 Packaging

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

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

### 6.2 Coverage

75 to 85 square feet per **Powerbase ICF** bag at 1/8” (3 mm) thickness

**Power-Kote Finish:** 60 to 70 square feet @ 3/16”

(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. Refer to local building codes for control joints placement.

### **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 **Power-Kote 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**

**POWER-KOTE FINISH**

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

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