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POWERBASE ICF / SIDER PROOF FF-PR

Product Data

Features and uses:

- Polymer modified white base coat for added flexibility and perfect adherence to ICF forms.
- **"Roll it and blade it smooth"** colored finish coat
- Easy three coat system application
- Perfect for **swimming pools**, **hot tubs and below grade water tanks** built with **ICF**.
- Pre measured finish kit for error free mixing ratio
- Yields a smooth plaster finish
- Water clean up
- Available in several pre-blended standard and custom colors.
- Also available with premixed speckled colored quartz

Powerbase ICF/Sider Proof FF-PR system is a durable cement-based polymer modified coating system for swimming pools built with Insulated Concrete Forms.

Coverage:
45 sf /55 lb bag of Powerbase ICF
60 sf/ kit of Sider Proof FF-PR

Packaging:
Powerbase ICF
55lb (25 kg) bag
Sider Proof FF-PR
53.2lb (24 kg) kit

Shelf Life:
Shelf life is 6 months in the original sealed packaging properly sheltered in a dry environment.

Storage:
Shelter in a dry environment from extreme heat, direct sunlight, rain and freezing.

Surface Preparation

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.

Mixing Instructions

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 ½" 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.

Sider-Proof FF-PR

ENSURE THAT THE MATERIAL IS STORED AWAY FROM DIRECT SUNLIGHT. IF WARM MATERIAL IS MIXED, IT WILL SET VERY RAPIDLY.

Shake well and pour the **Sider-Proof FF-PR** liquid into a clean bucket and then add ½ bag of powder. Mix thoroughly with a drill and mixing paddle for 10 to 20 seconds. Then add the rest of the powder and mix no less than 3 minutes to yield a good plasticity and achieve a homogeneous mix. Always pour the liquid component in first and then add powder while mixing for optimal results. Do not add any products in the mix, but you may add up to approximately ¼ to ½ cup of clean potable water to achieve a desired workability. If adding water to the mix, ensure the water is cool and **not** directly from the hose lying in the sun. Do not water-down the material too much as it will prevent the application of a thick coat. The thickness of the applied material in two coats will be a minimum of 3/16" and a maximum of 1/4" with each coat of equal thickness to ensure proper hardness. If the material thickens in the mixing pail during the application process, you may add a small amount of water in the mix and remix the material to achieve the desired consistency. Do not use partially set or frozen material in the mix.

Application

Powerbase ICF

Apply **Powerbase ICF** directly over the ICF surface with a clean, stainless steel trowel to a uniform thickness of 1/8" (3 mm). Lay standard a 4.5 oz mesh immediately over the wet **Powerbase ICF** and embed it into place with a trowel. Then apply an additional 1/8" (3mm) coat of **Powerbase ICF** and level to achieve a smooth base-coat with a total thickness of ¼" (6 mm). The mesh should be fully embedded and no pattern of the mesh should be visible beneath the surface of **Powerbase ICF**. Allow to dry for a minimum of 48 hours with sun exposure in ambient temperature above 70°F (21.1°C).

Sider-Proof FF-PR

IT IS RECOMMENDED TO APPLY THE MATERIAL IN THE EARLY MORNING DURING COOLER TEMPERATURES, AS A HOT SURFACE MAY FORCE THE MATERIAL TO SET TOO QUICKLY.

Apply **Sider-Proof FF-PR** directly to **Powerbase ICF** in two coats. The thickness of the applied material in two coats will be a minimum of 3/16" and a maximum of 1/4" with each coat of equal thickness to ensure proper hardness. Apply the first coat with a paint roller and roll smoothly. Then immediately smooth the coating with **MagicTrowel®** (remove the blade cover); using **MagicTrowel®** from top to bottom or side to side. Keep the blade wet at all times on **MagicTrowel®**. Do not roll over applied material that has already started to set, as it will damage it. Dip the roller directly into the mixing pail; do not use a roller pan. Allow the first coat to dry for approximately 24 hours (depending on ambient conditions) prior to the application of the second coat. Also, allow for a slight rough finish on the first coat to ensure proper mechanical adherence of the second coat. Apply the second coat in the same manner as the first coat. Apply the second coat with a paint roller and roll smoothly. Then immediately smooth the coating with **MagicTrowel®**; using **MagicTrowel®** from top to bottom or side to side. Keep the blade wet at all times on **MagicTrowel®**. For details, corners, steps and edges, sponge floating may be used to render a smooth finish.

For the application of **Sider-Proof FF-PR** in the Speckled Colors (premixed with colored quartz), the coating should be lightly sanded with a medium or fine grit sanding sponge to expose the quartz for a brighter and colorful finish. Allow a minimum of 24 hours and a maximum of 48 hours of drying time depending on surrounding conditions (temperature, humidity) prior to sanding.

Recommended Tools

Drill: DeWalt ½" drill, Type 3, 7.8 A / 450 rpm or similar
Paddle: Large square mortar paddle (not small paint paddle)
Trowel: Stainless steel trowel
Pail: 5-gallon plastic pail or larger
MagicTrowel®: Available in different sizes, 12" and 18" are recommended
Sponge: Masonry/grout sponge
Sanding Sponge: Fine/Medium grit sanding sponge

Limitations

Apply when ambient and shell/surface temperatures are above 45° F (8° C) during application and drying period. Do not apply to overheated, excessively dry or frozen substrate, nor during periods of high winds. Mist as necessary to prevent rapid drying of **Powerbase ICF** and **Sider-Proof FF-PR** in high temperature applications. Due to the natural ingredients which make-up **Powerbase ICF** and **Sider-Proof FF-PR** or the nature of the substrate, the development of efflorescence may naturally occur and appear on the surface of **Powerbase ICF** and **Sider-Proof FF-PR**.

*The 'No-Brushing' refers to the practice of brushing the walls of a pool plastered with standard cement-based plaster during start-up procedures; which is no longer necessary with the application of **Sider-Proof FF-PR**.
*The 'No Check-Cracking' refers to the development of cracking which could occur

in a pool plastered with standard cement-based plaster if the plaster remains out of water for a certain time. **Sider-Proof FF-PR** will not develop 'Check-Cracking' if it remains out of water; however, it does not refer to possibility of the development of cracking in **Sider-Proof FF-PR** resulting from such causes as, but not limited to, structural movement or application during extreme weather conditions (high winds, extreme high heat).

Note: Due to the natural ingredients which make-up **Sider Proof FF-PR,** the use of colors or the nature of the substrate, the development of efflorescence may naturally occur and appear on the surface. Final texture and color of installed material may vary due to its composition and variations in application tools and techniques, weather and lighting conditions, and other factors beyond the control of the manufacturer. Sider-Crete, Inc. assumes no liability for variations caused by conditions beyond its control.

Start-Up Procedures

Allow **Sider-Proof FF-PR** to fully dry (minimum 24 hrs - depending on ambient temperatures) prior to filling the pool with clean water. Additional drying time is recommended for indoor projects. Ensure that all signs of dampness in **Sider-Proof FF-PR** have dried and the coating is uniform in color.

At no time should any person or pets be allowed in the pool during the fill and start-up process.

For all pools, it is recommended to pre-dilute all chemicals with pool water in a pail prior to adding to the pool water. To ensure years of long-lasting durability, continually maintain a balanced water chemistry.

Start-up process:

- Place a clean rag on the end of the hose and place the hose in the main drain to prevent damage to the surface of the coating.
- Fill the pool with clean water to the middle of the skimmer or specified water level without interruption to help prevent a ring to form on the surface of the plaster.

- Once the pool is filled:
  - Begin circulating the water by starting the pump and filter, and continue running 24 hours a day.
  - The use of a sequestering agent/stain & scale is required (follow chemical manufacturer recommended dosage for your specific pool volume).
  - Test pH, alkalinity & calcium hardness
    - Alkalinity should be adjusted to 80 ppm to 120 ppm
    - pH should be adjusted to 7.2 to 7.6
  - Continue adjusting your pH & Alkalinity daily
  - After 3 to 5 days of constant water circulation (depending on ambient conditions – i.e.: temperatures, etc), adjust the pool water to the following levels:
    - Free Chlorine: 1.0 to 3.0 ppm
    - pH: 7.4 to 7.6
    - Total Alkalinity 80 - 120 ppm
    - Calcium Hardness: 200 - 400 ppm
    - Stabilizer: 30 to 100 ppm

- After 5 days of constant water circulation, you may return your filtration timer to a normal operating cycle.
- For salt water pools, you may add salt after 14 days of constant water circulation.

- **Do not** add calcium chloride for the first 5 days.
- **Do not** add salt for 14 days.
- **Do not** brush the coating or allow anything abrasive against the coating for 14 days.
- **Do not** use a manual wheeled vacuum system for 14 days.
- **Do not** use an automatic pool cleaner for four weeks.

Additional drying time is recommended for indoor projects

Clean Up

Clean tools and equipment after use prior to drying 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.

Health and Safety

KEEP OUT OF REACH OF CHILDREN AND ANIMALS. Product is alkaline and may burn or irritate upon contact with eyes or skin. Do not ingest. Use of safety goggles, rubber gloves and dust respirator is recommended. This product contains crystalline silica. Take measures to contain and reduce dust.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes and SEEK IMMEDIATE MEDICAL ATTENTION. For skin contact, wash thoroughly with soap and water. If swallowed, SEEK IMMEDIATE MEDICAL ATTENTION. For additional information, call Sider-Crete, Inc. at 888- 743-3750. Refer to Material Safety Data Sheet (MSDS) for further information.

Attention

Sider-Crete, Inc. products shall be prepared, mixed and applied for its intended use, in strict accordance with Sider-Crete's recommended mixture and application procedures and specifications. Defects in materials caused by improper storage, misuse, mishandling or failure to strictly follow the specific application specifications and procedures of Sider-Crete, Inc. for its various products are not warranted under any circumstances. Sider-Crete, Inc. shall not be responsible for any damage or injury caused in whole or in part by force majeure, structural movement, insufficient, improper or defective waterproofing between Sider-Crete and non-Sider-Crete materials, nor any other damage or injury not solely and directly caused by a defect in Sider-Crete, Inc. products. Users and/or Purchasers agree that Sider-Crete, Inc. cannot accept any liability for omissions, errors, end-result of projects, or any cause or effects resulting from our recommendations. Users and/or Purchasers should contact their architect and/or engineer regarding the appropriate product to be specified and used for their project and acquire the latest products specifications, to ensure that any information used to make decisions about the product(s) is as up-to-date and complete as possible. All sales are subject to Sider-Crete, Inc.'s Terms and Conditions of Sales.