Designer & Manufacturer of the original Roll-On Pool Plaster!

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"** pool plaster
- A true cement-based pool plaster finish
- Perfect for **swimming pools**, **hot tubs and below grade water tanks** built with **ICF**.
- Pre measured plaster kit for error free mixing
- Yields a smooth pool plaster finish
- Water clean up
- Available in several pre-blended standard and custom colors.
- Also available with premixed speckled colored quartz

A cement-based, polymer modified, waterproofing cement plaster system for ICF (Insulated Concrete Form) swimming pools comprised of a flexible ICF mesh reinforced base-coat and a Roll-On Cement Plaster.

Coverage:
60 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

Existing ICF surfaces must be free of all bond inhibiting materials including dirt, algae, release agents, grease, form oils and other foreign particles. Rasp entire surface of the ICF using an ICF/foam rasp. Irregular surfaces must be resurfaced and leveled to required tolerance and smoothness.

This coating **cannot** be applied to painted surfaces, steel or fiberglass surfaces.

Mixing Instructions

Powerbase ICF

Approximately 4.5 to 5 quarts 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.

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 and concrete bottom with a clean, stainless steel trowel to a uniform thickness of 1/8" (3 mm). Lay the high-impact reinforcing mesh immediately over the wet **Powerbase ICF** and embed it in place with a trowel (mesh may be omitted on the concrete floor unless cracks are present). Overlap the mesh applied over ICF walls 3 inches and 6 inches onto the concrete bottom. All inside corners shall also have a 3 inch minimum overlap. Then apply an additional 1/8" (3mm) coat of **Powerbase ICF** over the ICF areas (a second coat is not necessary on the concrete bottom) 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 on 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**. 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.

Sider-Proof FF-PR is applied on existing pool plaster, concrete or masonry substrates (Powerbase base-coat may be necessary) in two coats. The thickness of the applied material in two coats will be 3/16" (min) to a 1/4" (max) with each coat of equal thickness to ensure proper hardness. Additional coats of equal thickness may be applied if necessary.

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, or during periods of high winds. Mist as necessary to prevent rapid drying in high temperature applications. Do not allow more than 5 days between coats.

Once mixed, dip the roller directly into the mixing pail; do not use a roller pan. Apply the first coat with a paint roller and roll smoothly; then immediately and simultaneously smooth the coating with the MagicTrowel® from bottom-to-top for the walls and side-to-side for the floor (remove the cover from the MagicTrowel®). Keep the rubber blade on the MagicTrowel® continuously clean and wet. Allow for a slight rough finish on the first coat to ensure proper mechanical adherence of the second coat. Do not roll over applied material that has already started to set as it will damage it.

Allow the first coat to dry for approximately 24 hours (depending on ambient conditions) prior to the application of the second coat; however, do not allow more than 5 days between coats. 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 the MagicTrowel®. For details, corners, steps and edges, sponge floating may be used to render a smooth finish.

To expose the quartz for the **Sider-Proof FF-PR** in the **Speckled Colors** (premixed with colored quartz), during the application of the second coat, sponge float the coating as it starts to set by lightly misting the surface with water (using a hand-held spray bottle) and gently rubbing the coating in a circular motion with a damp grout sponge, until the quartz are evenly revealed.

Tips:
- ❖ It is recommended to apply each coat continuously to prevent 'cold joints'. If the project is too large to complete each coat continuously, then a tile break may be installed.
- ❖ To render a very smooth finish, using a spray bottle, lightly mist the surface with clean water while using the MagicTrowel®.
- ❖ After 24 hours to 48 hours of drying time following the second coat, any rough areas may be sanded with a fine grit sand paper for a smooth finish.

==Allow **Sider-Proof FF-PR** to fully dry (minimum 48 hrs - depending on ambient temperatures) prior to filling the pool with clean water.==

Additional drying time is recommended for indoor projects or projects in cooler ambient temperatures. Ensure that all signs of dampness in **Sider-Proof FF-PR** have dried and the coating is uniform in color.

Regardless of the amount of time the coating has air-dried, the following instructions must be followed starting with day 1.

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.

RECOMMENDATIONS

The pool will start to <u>hydrate</u> immediately after mixing, with the majority of hydration taking place within the first 28 days. This critical time period is when a finish is most susceptible to staining, scaling and discoloration.

Proper start-up procedures including constant monitoring and adjusting of the pool water is mandatory.

Due to unique local water conditions and environmental factors, parts of these recommended start-up procedures may need to be modified to protect the pool finish. For example: filling the pool with extremely low calcium hardness, low pH or low total alkalinity levels may necessitate changes to these procedures. Monitored chemical adjustments will be mandatory *during the service life of the pool surface.*

==**ALWAYS ADD A CHEMICAL TO WATER, NEVER WATER TO THE CHEMICAL**==

POOL FILLING DAY PREPARATION STEPS

1. Make sure the filtration equipment is operational.
2. Remove all floor return heads and directional eyeballs *(if appropriate and recommended in your geographical area.)*
3. Place a clean cloth on the end of the hose and place the hose in the main drain to prevent damage to the surface. If a water truck is required, 36 inches (90 cm) of water should be placed at the deepest area for the water cushion.
4. Fill the pool to the middle of the skimmer or specified water level without interruption as rapidly as possible with clean potable water to help prevent a bowl ring.
5. At no time should any person or pets be allowed in the pool during fill. Do not allow any external sources of water to enter the pool to help prevent streaking.
6. Test fill water for pH, alkalinity, calcium hardness and metals. Record test results.
7. Start the filtration system <u>immediately</u> when the pool is full to the middle of the skimmer or specified water level.

Start-Up Process:

Day 1

1. Once filled, pre-dilute and add a quality sequestering agent using the recommended initial start-up dosage per the sequestering agent's manufacturer.
1. High alkalinity should be adjusted to 80 ppm using pre-diluted Muriatic Acid (31-33% Hydrochloric acid). Always pre-dilute the acid by adding it to a five-gallon (19 L) Bucket of pool water.
2. Low Alkalinity should be adjusted to 80 ppm using sodium bicarbonate (baking soda).
3. pH should be reduced to 7.2 to 7.6 adding pre-diluted Muriatic Acid.
4. Operate filtration system continuously for a minimum of 5 days
5. You may use a soft bristle brush to stir/remove any calcium or other deposits
6. DO NOT add chlorine for 5 days
7. DO NOT turn on pool heater for 5 days

Day 2

1. Test pH, Alkalinity and Calcium Hardness and repeat steps 2-8 of **Day 1**.
2. Once the alkalinity is adjusted to 80 ppm and the pH is adjusted to 7.2 to 7.6, then adjust calcium hardness levels to a minimum of 150 ppm. (CAUTION: Adjustments requiring more than 20lb. of $CaCl_2$ should be pre-diluted and added in 10lb. increments- morning and afternoon.)

Day 3 & 4

1. Test pH, Alkalinity and Calcium Hardness and repeat steps 2-8 of **Day 1**.

Day 5

1. Test pH, Alkalinity and Calcium Hardness and repeat steps 2-8 of **Day 1**
2. Pre-diluted chlorine may be added to achieve 1.5 to 3 ppm.
3. Return filtration system to normal schedule

Day 6 to Day 28

1. Test pH, Alkalinity and Calcium Hardness and repeat steps 2-8 of **Day 1**.
2. Calcium levels should be adjusted slowly over the 28-day period not to exceed 200 ppm.
3. Adjust Cyanuric acid levels to 30 to 50 ppm based on the primary sanitizer of the pool (pre-dissolve and add through the skimmer).
4. **After Day 14** - - For Salt chlorination systems, you may add salt. Predilute the salt to prevent it from landing & stagnating on the bottom and eroding the plaster.

Daily Water Chemistry After 28 Days

- Free Chlorine = 1 to 3 ppm
- Total Chlorine = 1 to 3 ppm
- Sequestering Agent as per Manufacturer's directions
- pH = 7.2 to 7.6
- Total Alkalinity = 80 to 120 ppm

- Calcium hardness = 200 to 400 ppm
- Cyanuric acid = 30 to 50 ppm (100 ppm is max)
- TDS = 300 to 1800 ppm (non-salt pools)
- Salt Level= according to the manufacturer recommendations (Salt chlorination ONLY)

➢ **Do not** add salt for 14 days in salt water systems
➢ **Do not** hard-bristle brush the coating or allow anything abrasive against the coating for 14 days.
➢ You may use a soft bristle brush to stir/remove any calcium or other deposits
➢ **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 or during cooler temperatures.

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
- **Roller:** 9" shed-resistant fabric, 3/8" to 1/2" nap
- **Pail:** 5-gallon plastic pail or larger
- **MagicTrowel®** (photo right): 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, or during periods of high winds. Mist as necessary to prevent rapid drying in high temperature applications. Do not allow more than 5-7 days between coats. If material is stored for more than 2 weeks, shake the liquid container the day before application. Due to the natural ingredients which make up **Sider-Proof FF-PR** or the nature of the substrate, the development of efflorescence may naturally occur and appear on the surface of **Sider-Proof FF-PR**. **Sider-Proof FF-PR** may remain out of the water as long as desired without the risk of *check-cracking*; however, the coating will continue to harden and reach full cure once underwater.

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.

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 Safety Data Sheet (SDS) 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.