



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

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## SIDER-PROOF FF-PR Roll-On Pool Plaster

### PRODUCT DATA

#### Features and Uses

- “Roll it on and blade it smooth!”
- A true cement-based plaster – NOT a paint
- Provides a water-resistant finish for swimming pools, hot tubs, fish ponds, fountains and water features
- Pre-measured kits for an error free mixing ratio
- Easy two-coat application
- Yields a smooth plaster finish
- Polymer-modified for added flexibility, excellent freeze-thaw resistance and perfect adherence to pool plasters and concrete surfaces
- Water cleanup
- Available in several standard colors and custom colors upon request
- Also available with premixed colored quartz
- Please visit our website for available colors

**Sider-Proof FF-PR is a cement based roll-on pool plaster for concrete pools, existing pool plaster and masonry surfaces.**

#### Coverage:

Approximately 60 sq. ft. per kit for two coats depending on substrate condition

#### Packaging: 53lb/24kg kit

One 42 lb / 19 kg bag of powder (Part A)

One 1.3 gallons/5 liter container of polymer resin (Part B)

#### Shelf Life:

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

#### Storage:

Shelter in a dry environment away from extreme heat, direct sunlight, rain, and freezing temperatures.



## Surface Preparation

### Approved Surfaces

Existing unpainted pool plaster, marcite, poured concrete (with basecoat), gunite & shotcrete pools (with basecoat), concrete blocks (with basecoat), ICF – Insulated Concrete Forms (with base coat) and most any other masonry surfaces (call us for details if unsure of existing surface).

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

### Surface Preparation

Existing plaster, concrete or masonry surfaces must be solid, sound and free of all bond inhibiting materials including dirt, algae, efflorescence, release agents, grease, oils and other foreign particles. Remove paint and loose/damaged materials by water blasting, sandblasting or mechanical wire brushing. A pressure wash then an acid-wash/acid-etch is required to expose the aggregate and provide a proper mechanical bond followed by the application of a neutralizing treatment (example: TSP). Damages, loose plaster, indentions, high stress areas and cracks in the existing surface must be repaired using **Sider-Repair** prior to the application of **Sider-Proof FF-PR**. Apply a layer of tape to all jets, returns, drains and tiles to protect from the coating. Ensure that the existing plaster or surface has been dampened and is humid but not wet to the touch.

**Note:** For new gunite/shotcrete construction, you may apply **Sider-Repair** as a leveling base-coat prior the application of **Sider-Proof FF-PR** to level deep surfaces. Over new poured concrete construction, the application of **Power-Base ICF** as a base-coat (along with a reinforcing mesh for high stress areas prominent to crack development) is recommended prior to the application of **Sider-Proof FF-PR**.

**Note:** Prior to draining your swimming pool, inquire about elevated levels of ground water and certain local conditions that may create permanent damage by pushing the pool out of the ground if left empty. Sider-Crete, Inc. will not be held liable for any damages caused by such occurrence and any other related occurrences.

## Mixing Instructions

**ENSURE THAT THE MATERIAL IS STORED AWAY FROM DIRECT SUNLIGHT OR EXTREME HEAT TO PREVENT RAPID SETTING OF THE MATERIAL.**

Pour the **Sider-Proof FF-PR** liquid into a clean 5 gallon pail, then add half of the bag of powder. Mix with a drill and mixing paddle for 10 to 20 seconds, then add the rest of the powder and continue mixing for ~3 minutes to yield a good plasticity and homogeneous mix. For optimal results, always pour the liquid component first then add the powder while mixing. It is recommended to use a low speed drill and keep the mixing paddle at the bottom of the pail to prevent air entrainment in the mix. Do not add any products in the mix; but you may add up to a ½ cup of cool clean water to achieve a desired workability. Do not water-down the material in excess as it will prevent the application of the required thickness.

If the material thickens (false set) in the mixing pail during the application process, you may add 1oz to 2oz of cool clean water and remix the material to achieve the desired consistency. The thickness of the applied material in two coats will be between 3/16” (min.) to a 1/4” (max), with each coat of equal thickness to ensure proper hardness. If necessary, additional coats of equal thickness may be applied according to the same procedures and drying time (contact Sider-Crete, Inc. for more details). Do not use partially set or frozen material in the mix.

## Application

**IT IS RECOMMENDED TO PERFORM THE APPLICATION EARLY MORNING OR DURING COOLER TEMPERATURES TO PREVENT RAPID SETTING OF THE MATERIAL.**

**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<sup>®</sup> from bottom-to-top for the walls and side-to-side for the floor (remove the cover from the MagicTrowel<sup>®</sup>). Keep the rubber blade on the MagicTrowel<sup>®</sup> 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<sup>®</sup>. 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<sup>®</sup>.
- ❖ 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.

## Start-Up Procedures

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. No persons or pets are allowed in the pool during the fill and start-up process for the first 5 days or longer, until the pool chemistry is stable and it is safe for bathers to use the pool.

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 plaster will start to hydrate immediately after filling, 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 adjustments 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 immediately 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.
2. 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.
3. Low Alkalinity should be adjusted to 80 ppm using sodium bicarbonate (baking soda).
4. pH should be reduced to 7.2 to 7.6 adding pre-diluted Muriatic Acid.
5. Operate filtration system continuously for a minimum of 5 days.
6. You may use a soft bristle brush to stir/remove any calcium or other deposits
7. DO NOT add chlorine for 5 days
8. 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<sub>2</sub> 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)
- If using well water with possible contaminants, an inline filter is recommended during the filling process.
- The coating must remain submerged during extreme cold weather environments to alleviate stress cracks.
- **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", Type 3, 7.8 A / 450 rpm or similar
- **Paddle:** Large square mortar paddle (not small paint paddle)
- **Pail:** 5-gallon or larger plastic pail
- **Roller:** 9" shed-resistant fabric, 3/8" to 1/2" nap
- **MagicTrowel®** (right photo): Available in a 12" and 18" from Sider-Crete, Inc.
- **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.

This coating **cannot** be applied to painted surfaces, steel or fiberglass surfaces. This coating is not intended to be used on pools or other structures above living space, dwellings, open space and/or rooftop pools.

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 with water after use prior to drying. Clean up and remove all debris and materials from the site caused by the installation and dispose of according to federal, state and local regulations 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 and the use of safety goggles, rubber gloves, and dust respirator is recommended. This product contains crystalline silica. Mix outside or in a well ventilated area and take measures to contain and reduce the dust. A Material Safety Data Sheet is available by calling 1.478.892.9800 during our standard business hours.

## **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, contact Sider-Crete, Inc. or refer to the Safety Data Sheet (SDS).

## **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 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.