SIDER-CRETE, INC.
153 Regur Road
Hawkinsville, GA 31036 – USA
Ph: 478.892.9800
www.sider-crete.com

MONOBASE RU/ SIDER-PLAST FINISH

THE ULTIMATE HARD-COAT/ACRYLIC FINISH SYSTEM

1.0 DESCRIPTION

1.1 General

The combination of **Monobase RU** and **Sider-Plast Finish** is the ultimate approach in hard-coat/acrylic exterior decorative system. It will render a beautiful & durable hard-coat/acrylic finish similar to EIFS but without the use of foam; and unlike EIFS, the rendering will breathe and resist puncture. The unique and revolutionary composition and reinforcing fibers of **Monobase RU** 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. The vibrant colors provided by **Sider-Plast Finish** are available in 40 standard tints while custom colors are available upon request (call for details). The precise blend of calibrated sand, fibers and chemical additives, allows for vapor permeability and superb resistance to temperature variations.

2.0 MATERIALS

2.1 Monobase RU (Base Coat)

Monobase RU consists of a factory-blended Portland cement, lime, sand, additives and proprietary admixture, available as a 66 lb. (30 kg) bag of factory blended mix requiring only 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 Metal Furring and Lath

The lath and accessories shall comply with ASTM C-847 and zinc coated (galvanized) steel meeting ASTM C-525 and shall be of 1.75, 2.5 or 3.4 weight per square yard as required by the applicable building code. Perform work in accordance with ASTM C-841, ASTM C-847, ASTM C-1063 and ML/SFA specifications. Use fasteners recommended by fastener manufacturer for securing lath to wood or steel supports. Fasteners shall be spaced at a minimum of 6” and shall provide a minimum 1/8” (3.18 mm) clearance from the substrate after installation. The maximum overall wall coating thickness, using the minimum wire noted in this section, shall be ½” (12.7 mm). Companies specializing in performing the installation of Metal lath and trim accessories shall be approved and experienced, performing the installation according to the applicable building code.

2.4 Wire-Fabric Lath

Wire-fabric lath shall be a minimum Number 20 gauge; 1" (25.4 mm) galvanized steel. The furring and self-furring requirements shall be as described for metal lath in section 2.2. Wire-fabric lath shall be in compliance with ASTM 933-80 (welded) and ASTM 1032-86 (woven).

2.5 Weather-Resistive Membrane

A weather-resistive membrane is required over all substrates; exceptions being concrete, masonry surfaces and specific insulation board products. The weather-resistive membrane shall be minimum Grade D building paper complying with Federal Specification UUB-790A. The weather-resistive membrane shall be installed according to the applicable building code.

2.6 Plywood

The plywood substrates shall be in compliance with US DOC PS 1-95 and shall be minimum 7/16" (11.1 mm) in thickness.

2.7 Oriented Strand Board

Oriented Strand Boards shall be in compliance with US DOC PS-2-95, the American Plywood Association for Exposure 1 and shall have a minimum thickness of 7/16" (11.1 mm).

2.8 Gypsum Sheathing Board

The boards shall be water-resistant core gypsum sheathing in compliance with ASTM C 79-95.

2.9 Fiberboard

Asphalt- impregnated fiberboard shall be in compliance with ANSI/AHA A194.1-1985 as a regular density and shall have a minimum thickness of ½" (12.7 mm).

2.10 Caulk

The acrylic latex sealant shall be in compliance with ASTM C-834. Penetrations through the coating shall be caulked to prevent water penetration. Allow 48 hours minimum drying time prior to installing the sealant.

3.0 MIXING INSTRUCTIONS

3.1 Monobase RU

Mix approximately 1 1/2 gallon (6 quarts/ 6 liters) of clean, potable water to each bag of **Monobase RU**. Mix in a clean standard batch mixer for no less than 5 minutes to yield a good plasticity and homogeneous mix. Do not re-temper the material, add additional water or use partially set or frozen material in the mix. ***Do not over-mix***. Repeat the mixing procedure and add the same amount of water with every batch.

3.2 Sider-Plast Finish

Stir using a ½" 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 INSTALLATION

4.1 First Step: Base Coat - Monobase RU
Application over Concrete and Masonry Surfaces

Surface preparation
Surfaces must be free of all bond-inhibiting materials, including dirt, efflorescence, from form oils and other foreign particles. Paint, loose or damaged material must be removed by water blasting, sandblasting or mechanical wire brushing and repaired. Irregular surfaces must be resurfaced, patched or leveled to required tolerance and smoothness. Refer to ASTM C-926 for complete details on preparation and required condition of surfaces to receive Portland cement stuccos and recommended construction practices when installing stucco. Dampen excessively dry and overheated substrates before application. The application of a bonding agent such as Sider-Resin M50 is recommended on certain masonry or concrete surfaces.

Trowel application
Apply **Monobase RU** directly over the concrete or masonry surface with a clean stainless steel trowel in one or two coats for a minimum thickness of 3/8" (9.53 mm) according to substrate and surface conditions. Once applied, the working time for material is up to 20 minutes, according to ambient temperatures and surface condition.

Spray application
Apply **Monobase RU** with a conventional plaster pump or a hand-held spray gun (refer to section 5.7) directly over the concrete or masonry 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 one coat for a total minimum thickness of 3/8" (9.53 mm), according to the substrate and surface conditions. Once applied the working time is up to 20 minutes according to ambient temperatures and surface condition.

Important: Apply **Monobase RU** 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. It is recommended that newly applied **Monobase RU** be fogged and kept damp for 24 hours.

Application over solid backing
A weather resistive membrane is installed as described in Section 2.2 of this document. The lath is installed as described in Section 2.4 of this document. Use corrosion-resistant fasteners for lath attachment and allow a minimum fastener penetration of 1" (25.4 mm) into wood framing. **Monobase RU** shall be applied with a stainless steel trowel or spray equipment directly over the lath to a minimum thickness of 3/8" (9.53 mm) which shall be embedded in the coating and completely covered. Level the coating until a smooth plumb surface is achieved.

Plywood, Oriented Strand Board, Gypsum Sheathing, Fiberboard...

All shall be fastened directly over wood or steel framing in accordance to the applicable building code. The weather-resistive membrane, lath and coating shall be installed according to Section 2.0 of this document.

Limitations
Apply **Monobase RU** when surface and ambient temperatures are above 40° F (5° C) and below 95° F (35° C) during application and drying period. Do not apply to overheated, excessively dry or frozen substrate, nor during periods of high winds. **Monobase RU** should not be applied below grade or water immersed surfaces. **Monobase RU** is not recommended for applications to horizontal surfaces with the exception being that it can be applied on ceilings only over metal lath. Distance to grade varies with climate and local building codes. Allow sufficient distance to prevent dirt, snow, ice and water accumulating in a puddle to be in contact with the coating. 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 **Monobase RU** or the nature of the substrate, the development of efflorescences may naturally occur and appear on the surface of **Monobase RU**.

4.2 Second step: Finish textured coat – Sider-Plast Finish application

Surface preparation
It is recommended to prime **Monobase RU** surface with Sider-Plast Primer. Sand finish textures may not require primer application. However, sprayed textures and swirl textures shall require primer coat to prevent appearance of **Monobase RU** through finish coat. Surface should be free of all bond-inhibiting materials and dry.

Application over interior drywall
Prepare drywall as for painting and prime with Sider-Plast Primer. Allow to dry and apply **Sider-Plast Finish**.

Trowel application
Apply **Sider-Plast Finish** using a clean stainless steel trowel and apply a uniform coat the thickness of the largest aggregate size of the finish. Drying time is 24 hours under normal conditions.

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 the application.

5.0 Miscellaneous

5.1 Packaging

Monobase RU: 66 lb. (30 kg) bag of concentrate powder
Sider-Plast Finish: 65 lb. (29.5 kg) plastic pail

5.2 Coverage:

Monobase RU: 20 -25 sq. ft. per bag at 3/8" to ½" thickness

Sider-Plast Finish: depending on the finish texture:

Coarse Sand:	80 -90 square feet
Fine Sand:	125-130 square feet
Fine Swirl:	110-115 square feet
Sprayed Smooth:	150-200 square feet

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

5.3 Storage and shelf life

Shelter in a dry environment and away from extreme heat, direct sunlight, rain and freezing. Shelf life is 6 months in the original sealed packaging, properly sheltered.

5.4 Control Joints

Install control joints as specified by the design professional, builder and conforming to conventional three-coat plaster details or the applicable building code. As a minimum, control joints are required in areas where structural movement occurs, at floor line in wood frame construction and at building expansion and openings.

5.5 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.

5.6 Technical Application Assistance

Contact Sider-Crete, Inc. at **(1) 478.892.9800** for all technical inquiries.

5.7 Hand-Held Spray Gun and Plaster Pumps

Approved Hand-Held Spray Guns and Manufacturers

- Sablon spray gun (Ref # 32277or # 32278) by Maco-Meudon
- Wall model 4 holes spray gun by ACPO
- Spotting model by ACPO
- Wall model 1 hole by ACPO

Recommended Plaster Pumps and Manufacturers

- P11 Series, Tommy Gun A3 series, S5 Rotor/Strator Pumps & Mixers by *Putzmeister*
- PFT pumps. Call for available models

Contact Sider-Crete, Inc. for availability.

5.8 Clean Up

Monobase BC Concentrate and **Sider-Plast Finish** clean up with water prior to drying. Clean tools and equipment after use with water. Clean up and remove all debris and materials according to federal, state and local regulations in an approved landfill.

5.9 Commercial Names

MONOBASE RU
SIDER-PLAST FINISH

*And now, enjoy using **MONOBASE RU** and **SIDER-PLAST FINISH** and benefit from this superior traditional textured decorative wall coating system developed by Sider-Crete, Inc., leaders of technological advancements for the construction industry since 1937.*