



SIDER-CRETE, INC.

153 Regur Road
Hawkinsville, GA 31036 – USA

Ph: 478.892.9800

www.sider-crete.com

MONOBASE BC CONCENTRATE/ SIDER-TUSCAN FINISH

THE ULTIMATE 'OLD-WORLD' DECORATIVE SYSTEM

1.0 DESCRIPTION

1.1 General

Monobase BC Concentrate is a durable one-coat, cementitious exterior or interior wall coating yielding a durable, water-repellent base coat. A blended composition of Portland cement, lime and non-synthetic chemical additives, **Monobase BC Concentrate** performs like a protective skin that does not trap moisture, thus allowing substrates to breathe naturally and providing the unique balance of water repellency and exceptional vapor permeability. Applied by hand troweling or machine spraying, **Monobase BC Concentrate** is designed to adhere directly to masonry blocks, concrete and brick without reinforcement, in a one-coat application, or directly over lath fastened to exterior sheathing that is protected by a weather resistant membrane. The versatility of this state-of-the-art coating, allows for an application in thickness from 3/8" up to 3/4" according to the substrate and the desired texture.

The combination of **Monobase BC Concentrate** and **Sider-Tuscan Finish** is the ultimate traditional approach in exterior decorative coating. The unique and revolutionary composition and reinforcing fibers of **Monobase BC Concentrate** combined with the very specific integral color formulation of **Sider-Tuscan Finish**, yield a durable, fade resistant, colored finish to be applied by hand troweling or machine spraying. **Sider-Tuscan Finish** is an 'old-world' Tuscany colored rendering, providing a slick traditional finish. Rather thin in application, it will render an 'old-style' look with textures such as a fine skip-trowel. It is available in many standard attractive integral colors while custom colors are available upon request. 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 BC Concentrate

Monobase BC Concentrate consists of a factory blended Portland cement, lime, additives and proprietary admixture, available as an 80 lb. bag of factory blended concentrate mix requiring only the addition of potable water and coarse stucco sand at the job site.

Products Standards:

- Portland Cement C-150, Type 1. Federal SS-C-1960/3 – Base coat
- Portland Cement C-150, Type 1. Federal SS-C-1960/3, White Cement- Finish Coat
- Polypropylene ½ “ fibers, alkaline-resistant – Base Coat
- Type S Hydrated Lime : ASTM C-206 & ASTM C-207, Type S
- Sider-Crete products complies to ASTM C-926

2.2 Sider-Tuscan Finish

Sider-Tuscan Finish consists of a factory blended white Portland cement with pigments, additives (water repellent agents, UV resistant agents) and proprietary admixture. **Sider-Tuscan 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 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 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 minimum 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” (25.4mm) 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 BC Concentrate

Mix in a clean standard stucco mixing machine for no less than 5 minutes in the following steps to achieve a consistent, homogeneous mix:

- Adequate amount of water for a thick workable mud
- 1 bag of **Monobase BC Concentrate**
- 2 to 3 parts coarse stucco sand (by weight: 3 full ‘5 gallon buckets’)

Do not over-mix. Repeat the mixing procedure and add the same amount of water with every batch. Do not re-temper the material in the mixer nor use partially set or frozen material in the mix.

3.2 Sider-Tuscan Finish

Approximately 5 to 5 ½ quarts (5 to 5 ½ liters) of clean potable water is to be added per bag of **Sider-Tuscan Finish**. Mix in a clean standard stucco-mixing machine for no less than 5 minutes to yield good plasticity and a homogeneous mix. For darker colors a longer mixing time may be required to ensure proper color dispersion. Do not over mix. 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 INSTALLATION

4.1 First Step: Base Coat - Monobase BC Concentrate

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.

Trowel application

Apply **Monobase BC Concentrate** 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. Application thickness varies depending on the pattern or texture desired.

Spray application

Apply **Monobase BC Concentrate** 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 BC Concentrate** 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 BC Concentrate** be fogged and kept damp for 48 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 BC Concentrate** 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 BC Concentrate** 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 substrate, or during periods of high winds. **Monobase BC Concentrate** should not be applied below grade or water immersed surfaces. **Monobase BC Concentrate** 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 BC Concentrate** and **Sider-Tuscan Finish** or the nature of the substrate, the development of efflorescences may naturally occur and appear on the surface of **Monobase BC Concentrate** and **Sider-Tuscan Finish**.

4.2 Second step: Finish Textured Coat – Sider-Tuscan Finish Application

Trowel Application

Mist **Monobase BC Concentrate** surface with water prior to **Sider-Tuscan Finish** application. Apply **Sider-Tuscan Finish** directly over **Monobase BC Concentrate** surface with a clean stainless steel trowel in a double skim coat application at a thickness of 1/8" (3 mm) to 1/4" (6.35 mm) according to substrate and surface conditions. Once applied the working time is up to 20 minutes according to ambient temperatures and surface condition. Trowel **Sider-Tuscan Finish** to required tolerance. A fine sand finish texture may be achieved using a sponge, wood or plastic float.

Spray Application:

Mist **Monobase BC Concentrate** surface with water prior to **Sider-Tuscan Finish** application. Apply **Sider-Tuscan Finish** with a conventional plaster pump (refer to section 5.6 for pump information) directly over the **Monobase BC Concentrate** 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 1/8" (3 mm) to 1/4" (6.35 mm) 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 **Sider-Tuscan Finish** to required tolerance and texture with a sponge, wood or plastic float.

Important: Apply **Sider-Tuscan 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. It is recommended that newly applied **Sider-Tuscan Finish** be fogged and kept damp for 48 hours.

5.0 MISCELLANEOUS

5.1 Packaging

Monobase BC Concentrate: 80 lb. (36 kg) bag of concentrate powder (paper bag with moisture barrier)

Sider-Tuscan Finish: 50 lb. (22.7 kg) bag of powder (paper bag with moisture barrier)

5.2 Coverage

55 to 60 sq. ft. per bag of **Monobase BC Concentrate** at 3/8" to 1/2" thickness.

50 sq. ft. per bag of **Sider-Tuscan Finish** at 1/8" thickness.

(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 Toll Free: **888-743-3750** for all technical inquiries.

5.7 Hand-Held Spray Gun and Plaster Pumps

Approved hand-held spray guns and manufacturers

- Sablon spray gun (Ref # 32277 or # 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
- And most mortars and plasters sprayers and mixers.

Contact Sider-Crete, Inc. for availability and additional information.

5.8 Clean Up

Monobase BC Concentrate and **Sider-Tuscan Finish** clean up with water prior to 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.

5.9 Commercial Names

MONOBASE BC CONCENTRATE

SIDER-TUSCAN FINISH

*And now, enjoy using **MONOBASE BC CONCENTRATE** and **SIDER-TUSCAN FINISH** and benefit from this revolutionary technology developed by Sider-Crete, Inc., innovative leaders in the construction industry since 1937.*

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