



SIDER-CRETE, INC.

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SIDER-PROOF HCR

THE FLEXIBLE CEMENT-BASED ‘HIGH CHEMICAL RESISTANCE’ WATERPROOFING COATING

1.0 DESCRIPTION

1.1 General

Sider-Proof HCR is a high chemical-resistant flexible cement-based waterproofing coating for aggressive environments. **Sider-Proof HCR** is specifically designed for use in infrastructure construction and rehabilitation projects. This product provides waterproofing and protection for water tanks, corrosive product storage tanks and buried concrete conduits (such as sewer lines and collectors). **Sider-Proof HCR** is designed for applications over as poured concrete, concrete blocks, and various masonry substrates. Additional benefits include: excellent bacterial acids corrosion resistance, the ability to resist freeze-thaw cycles.

1.2 Technical Data on Chemical Resistance

Resistance to cracks: up to 1mm

Resistance to abrasion: 30 % superior than standard mortar

Resistance to Alkaline Chemicals (pH 11): \leq 2% to 3% weight loss

Resistance to Acid Organic/Mineral Chemicals (pH 3): \leq 2% weight loss

Resistance to Acid Bacterial Chemicals: Excellent

Resistance to resist freeze-thaw cycles: no deterioration noted after 10 cycles of rain/freeze/UV

Excellent waterproofing properties and resistance to de-icing salts

2.0 MATERIALS

2.1 SIDER-PROOF HCR

Sider-Proof HCR consists of a mixture of Portland cement, sand, bonding agents, mineral additives, stabilizers, and non-synthetic additives.

One kit of **Sider-Proof HCR** consists of a 55 lb. (25 kg) bag of powder (Part A) and an 8 liter (2.1 gal.) container of liquid (Part B).

3.0 SURFACE PREPARATION

Surfaces must be free of all bond-inhibiting materials including dirt, efflorescence, release agents, and any other foreign particles. Remove paint, loose or damaged materials by water blasting, pressure washing, sandblasting or mechanical wire brushing. Repair all surface cracks. Dampen surface prior to applying **Sider-Proof HCR**. Do not apply to dry or frozen surfaces. Protect from rain, freezing, and thawing surfaces.

4.0 MIXING INSTRUCTIONS

ALWAYS POUR LIQUID COMPONENT IN FIRST AND THEN MIX WITH POWDER FOR OPTIMAL RESULTS.

Shake well and pour the liquid (Part B) into a clean bucket and then add ½ bag of powder (Part A). 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 5 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. Do not re-temper the material, or use partially set or frozen material in the mix.

5.0 INSTALLATION

5.1 Application

Apply **Sider-Proof HCR** with a large clean brush or paint roller. Allow the first coat to dry to the touch prior to the application of the second coat but no more than 24 to 48 hours. Also, allow for a slight rough finish on the first coat to ensure an appropriate mechanical bond of the second coat. It is important to make sure that **Sider-Proof HCR** is applied over the entire surface to insure its waterproofing qualities. Do not roll or brush over applied material that has already started to set, as it will damage it. Drying period is a minimum of 72 hours (depending on ambient temperatures) before contact with water or chemicals.

Note: **Sider-Proof HCR** is manufactured with natural products. Final texture installed material may vary due 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. Due to the natural ingredients which make-up **Sider-Proof HCR** or the nature of the substrate, the development of efflorescence may naturally occur and appear on the surface of the coating.

6.0 MISCELLANEOUS

6.1 Packaging

Sider-Proof HCR Kit: 55 lb. (25 kg) bag of powder (Part A)
 2.1 gallon (8 liter) container of liquid (Part B)

6.2 Coverage

Each kit of **Sider-Proof HCR** covers approximately 60 square feet.

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

6.3 Storage and Shelf Life

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

6.4 Technical Assistance

For technical inquiries Contact Sider-Crete, Inc. at **Toll Free: 888-743-3750.**

6.5 Professional Qualifications

Installation shall be performed by contractors with documented experience in the application of waterproofing coating and/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.

6.6 Commercial Name SIDER-PROOF HCR

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

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