

STONCHEM® 700-800 SERIES PRIMER

PRODUCT DATA

Stonchem 700/800 Series Primer is a two-component, highly cross-linked vinyl ester priming system that penetrates into concrete and reduces porosity. It is applied to a properly prepared surface prior to application of the appropriate Stonhard lining system. The use of Stonchem 700/800 Series Primer ensures a secure bond between the substrate and the lining system, reduces absorption of the lining system's liquids by sealing concrete porosity and makes the overall application of the lining system easier.

USES

Stonchem 700/800 Series Primer is designed for use with Stonhard's 700 Series and 800 Series lining systems. This product should be used as a priming coat prior to application of any of the above systems.

PRODUCT ADVANTAGES

- Enhances bond between the substrate and lining system
- Excellent concrete substrate penetration
- Rapid cure allowing for quick installation of lining system

PACKAGING

Primer

5 Litre Stonchem 700/800 Primer + 100ml Peroxide, approximately 1.6m²/5litre.

COVERAGE

Since each kit has been proportioned to cover a specific area, the installer should make certain that each single kit is NOT used to cover a larger area. Also, on very rough surfaces, a batch of Stonchem 700/800 Series Primer may not cover a full 1.6m². The rougher the surface, the less total area a kit will cover.

ORDERING PROCESS

Due to Stonchem 700/800 Series Primer's limited shelf life, material will only be manufactured on order, and note should be taken of manufactured dates and storage condition requirements.

STORAGE CONDITIONS

Store all components between 10 to 24°C in a dry area. Keep

TYPICAL PROPERTIES AT 25°C

Gel Time15 to 25 Minutes
ColourTransparent Brown
VOC53 g/l

Note:The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens. All sample preparation and testing is conducted in a laboratory environment, values obtained on field applied materials may vary and certain test methods can only be conducted on lab made test coupons.

out of direct sunlight. Avoid excessive heat and do not freeze. The shelf life is 3 months in the original, unopened container.

APPLICATION

SUBSTRATE

Stonchem 700/800 Series Primer is suitable for application over concrete, wood, brick, quarry tile, metal or Pro-Struct 528/529 Concrete Repair products. For questions regarding other possible substrates or an appropriate primer, contact your local Stonhard representative or Technical Service Department.

SUBSTRATE PREPARATION

Proper surface preparation of substrate is critical to ensure an adequate bond. The substrate must be dry and free of all wax, grease, oils, fats, soil, loose or foreign materials and laitance. Laitance and unbonded cement particles must be removed by mechanical methods, i.e. abrasive blasting or scarifying. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent (Carboclean 250 and Carboclean 252) and rinsing with clean water. Previously contaminated substrates should be neutralized and thoroughly rinsed clean with potable water. pH checks with litmus paper should be carried out to confirm neutral substrates. The surface must show open pores throughout with main aggregate in concrete exposed and have a sandpaper texture. Substrate moisture content prior to coating should be below 5% and substrate tensile strength above 2 MPa. For recommendations or additional information regarding sub-

strate preparation, refer to surface preparation data sheet or contact StonCor Africa Technical Service Department.

SUBSTRATE REPAIR, REPROFILING AND “NEGATIVE SIDE” WATERPROOFING

Reinstatement of damaged or defective concrete should be carried out using Pro-Struct 528 VO-MCI for vertical and overhead repairs or Pro-Struct 529-MCI for floor repairs as per the product data sheets. The minimum depth repair should be no less than 10mm and perimeter edge cuts should be made perpendicular to the surface to avoid feather edging. For trafficable floor areas, a minimum depth of 25mm is required.

REPROFILING / SURFACE TREATMENT

After surface preparation, all surfaces are to be inspected, ensuring no pinholes, bugholes and other surface irregularities are present. If so, then it is recommended that a surface reprofiling product such as Pro-Struct 526 Waterproofer be applied as a dense 3mm layer using steel trowels, as per the product data sheet. Applying Pro-Struct 526 Waterproofer is also recommended should rising moisture be of concern.

APPLICATION GUIDELINES

For optimal working conditions, substrate temperature must be between 15 to 30°C. Cold areas must be heated until the slab temperature is above 15°C to ensure the material achieves a proper cure. A cold substrate will make the material stiff and difficult to apply. Warm areas or areas in direct sunlight must be shaded or arrangements made to work during evenings or at night. A warm substrate (15 to 30°C) will aid in the material's workability; however, a hot substrate (30 to 35°C) or a substrate directly in the sun will shorten the material's working time and can cause other phenomenon such as pinholing and bubbling. Substrate temperature should be greater than 3°C above dew point.

Application and curing times are dependent upon ambient and surface conditions. Consult StonCor Africa Technical Service Department if conditions are not within recommended guidelines.

FIELD GEL TESTS

Due to the unique nature of the 700/800 Series Primer Resins, their reactivity is affected by storage conditions and age; therefore, it is important to test the cure of the materials prior to application. Gel tests should be performed for each lot of each product shipped to a job to prevent problems related to material curing.

MIXING

Empty the contents of peroxide and resin into a clean mixing container. Mix with a slow speed drill and spiral impeller for 2 minutes. NOTE: Do not start mixing until surface is properly prepared and dry, with the temperature of both Stonchem

700/800 Series Primer and substrate surface at least above 16°C. Check substrate moisture is less than 5% using a moisture metre.

PRIMING

Vacuum the substrate before priming, and make sure the surface is dry. The use of Stonchem 700/800 Series Primer is necessary in all applications of Stonchem 700/800 Series. This ensures maximum product performance. Apply using medium nap rollers or brush. Material must not puddle in holes or depressions. The working time on a 5 litre kit is between 20 to 30 minutes at 25°C.

Note: Stonchem 700/800 Series Primer must be tack-free prior to the application of the Saturant – Basecoat (usually 4 to 6 hours) at 21°C.

PRECAUTIONS

- Avoid contact with Stonchem 700/800 Series Primer resin (polyester resin and styrene monomer) and peroxide (catalyst / organic peroxide) as they may cause skin, respiratory and eye irritation.
- Acetone is recommended for clean-up of Stonchem 700/800 Series Primer resin (polyester resin and styrene monomer) and peroxide (catalyst / organic peroxide) materials pills. Use these materials only in strict accordance with the manufacturer's recommended safety procedures. Dispose of waste materials in accordance with government regulations.
- The use of NIOSH/MSHA approved respirators using an organic vapor / acid gas cartridge is mandatory.
- The selection of proper protective clothing and equipment will significantly reduce the risk of injury. Body covering apparel, safety goggles or safety glasses and impermeable gloves are required.
- In case of contact, flush area with water for 15 minutes and seek medical attention. Wash skin with soap and water.
- If material is ingested, immediately contact a physician. **DO NOT INDUCE VOMITING.**
- Use only with adequate ventilation. Inhalation of vapours may cause severe headaches, nausea and possibly unconsciousness.

NOTES

- Safety Data Sheets for Stonchem 700/800 Series Primer are available online at under products or upon request.
- Specific information regarding the chemical resistance of Stonchem 700/800 Series Primer is available in the Stonchem 700 or 800 Series Chemical Resistance Guide.
- A staff of technical service engineers is available to assist with product application or to answer questions related to Stonhard's products.
- Requests for technical literature or service can be made through local sales representatives and offices or corporate offices located worldwide.

IMPORTANT:

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. User must contact StonCor Africa to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to StonCor Africa quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices and cost data, if shown, are subject to change without prior notice. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY STONCOR AFRICA, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING ERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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