

PRODUCT DESCRIPTION

Stonchem 700/800 Series Primer is a three-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.

TYPICAL PROPERTIES AT 25°C

Colour	Transparent Brown
Gel Time	15 to 25 Minutes
VOC ASTM D2369E	53 g/l

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 AND COVERAGE

Primer:

5 Litre Stonchem 700/800 Primer + 100ml Peroxide + 100ml Catalyst, approximately 16m²/5litre.

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 16m². The rougher the surface, the less total area a kit will cover.

REFERENCE SAMPLE

A trial reference sample should be installed by the applicator prior to start of contract to ensure correct coverage and workmanship.

STORAGE CONDITIONS

Store all components between 10 to 24°C in a dry area. Keep out of direct sunlight. Avoid excessive heat and do not freeze.

SHELF LIFE

The shelf life is 6 months in the original, unopened container.

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.

PLACEMENT GUIDELINES

SUBSTRATE

Stonchem 700/800 Series Primer is suitable for application over concrete, wood, brick, quarry tile, metal or Euclid 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 substrate 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 Euclid Concrete Repair products 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

Reprofiling of uneven surfaces and controlling rising moisture should be carried out using Euclid Cement-based Waterproofing products applied as a dense 3mm layer using steel trowels, as per the product data sheet.

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

Premix the resin and catalyst for 30 seconds in a clean mixing container. Mix with a slow speed drill and spiral impeller. Add the peroxide and mix for a further one minute. **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 and styrene monomer) catalyst and peroxide (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 and styrene monomer) catalyst and peroxide (organic peroxide) materials spills. 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

- Material Safety Data Sheets for Stonchem 700/800 Series Primer are available online at www.stoncor.co.za, 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.