

### PRODUCT DESCRIPTION

Stonchem 882 is a silica-free and spark-proof, vinyl ester lining system applied at a nominal thickness of 40 mil/1 mm. The carbon-filled mortarcoat and silica-free topcoat provide a light-duty and non-sparking barrier. The Stonchem 882 system has excellent resistance to hydrofluoric acid and oxidizers such as concentrated nitric and chromic acid.

### USES, APPLICATIONS

- Secondary containment areas/tank farms
- Concrete sumps, vaults and trenches
- Pump pads and pedestals
- Storage tanks
- Chemical storage rooms

### PRODUCT ADVANTAGES

- Excellent chemical resistance to hydrofluoric acid
- Silica-free
- Factory proportioned units for easy application
- Non-sparking

### CHEMICAL RESISTANCE

Stonchem 882 is formulated to resist a variety of chemical solutions. Refer to the Stonchem 800 Series Chemical Resistance Guide, which lists reagent concentration and temperature recommendations for each product.

### PACKAGING

Stonchem 882 is packaged in units for easy handling. Each unit consists of:

#### *Mortarcoat*

1.5 cartons of Stonchem 800/820 Liquids  
Each carton contains:  
2 jars of Peroxide  
2 cans of Resin  
3 bags of X20 Mortarcoat Aggregate

#### *Topcoat*

1 carton of Stonchem 800 SF Topcoat  
Each carton contains:  
2 jars of Peroxide  
2 cans of Resin

### COVERAGE

Each unit of Stonchem 882 will cover approximately 180 sq. ft./16.72 sq. m at a thickness of 40 mil/1 mm.

### STORAGE CONDITIONS

Store all components between 50 to 75°F/10 to 24°C in a dry area. Keep out of direct sunlight. Avoid excessive heat and do not freeze. The shelf life is 6 months in the original, unopened container.

### SUBSTRATE

Stonchem 882, with appropriate primer, is suitable for application over concrete and the following uncoated newly-applied Stonhard mortars and grouts: GS, HT, UR, UT, TG6, TG8, CR5 and PM8. For questions regarding other possible substrates or an appropriate primer, contact your local Stonhard representative or Technical Service.

### SUBSTRATE PREPARATION

Proper preparation is critical to ensure an adequate bond and system performance. The substrate must be dry and properly prepared utilizing mechanical methods. For existing coated surfaces, the coating must be completely removed back down to an intact mortar or substrate. Once the coating is removed, prime the prepared surface with Stonchem Epoxy Primer and broadcast with silica aggregate to refusal. Remove any excess silica aggregate prior to system overlayment. Omitting these steps could result in uncured material. Questions regarding substrate preparation should be directed to your local Stonhard representative or Technical Service.

### PHYSICAL CHARACTERISTICS

Tensile Strength.....	3,000 psi
(ASTM D-638)	
Flexural Strength .....	12,000 psi
(ASTM C-580)	
Flexural Modulus of Elasticity .....	5 x 10 <sup>5</sup> psi
(ASTM C-580)	
Hardness .....	85-90
(ASTM D-2240, Shore D)	
Abrasion Resistance.....	0.10 gm max. weight loss
(ASTM D-4060, CS-17)	
Thermal Coefficient	
of Linear Expansion.....	2 x 10 <sup>-5</sup> in./in. °F
(ASTM C-531)	
Color .....	Gray
Cure Rate .....	2 to 4 hours tack-free
(@77°F/25°C) .....	24 hours chemical service
VOC.....	800/820 Liquids 53 g/l
(ASTM D-2369, Method E)	800 SF Topcoat 83 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.

## APPLICATION GUIDELINES

For optimal working conditions, substrate temperature must be between 60 to 80°F/15 to 27°C. Cold areas must be heated until the slab temperature is above 55°F/13°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 (60 to 80°F/15 to 27°C) will aid in the material's workability; however, a hot substrate (80 to 100°F/27 to 37°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 must be greater than 5°F/3°C above dew point during application and curing period.

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

## FIELD GEL TESTS

Due to the unique nature of the 800 Series 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. Field gel test kits are included in every shipment of 800 Series material. One gel test contains directions and all of the necessary materials to conduct the testing. Test all lots of material prior to use.

## PRIMING

Vacuum the surface before priming, and make sure the concrete substrate is dry. The use of Stonchem 700/800 Series Primer is necessary in all applications of Stonchem 882. This ensures maximum product performance. (See the Stonchem 700/800 Series Primer Product Data sheet for details.)

Note: Stonchem 700/800 Series Primer must be tack-free prior to application of the Mortarcoat.

## APPLYING

### *Mortarcoat*

Pre-mix the peroxide and resin in a 5-gallon mixing bucket with a heavy-duty, slow-speed drill (400 to 500 rpm) and a mixing blade for one minute. Next, gradually add the mortarcoat aggregate while mixing for an additional two minutes. For vertical applications, use vertical mortarcoat aggregate. Mixing is complete when no dry clumps of material exist. Pour the material onto the floor and spread out with a 15 mil notched squeegee. Backroll the area with a medium nap roller to remove squeegee lines. The material may appear rough at first but will level out to a smooth finish. For vertical surfaces, use a large steel trowel or knife to pull an initial coat of vertical material onto the wall, then finish smooth with a flat rubber squeegee.

### *Topcoat*

Lightly sand the mortarcoat in areas where ridges or imperfections exist. Vacuum the area completely. Mix the peroxide and resin in a 5-gallon mixing container using a heavy-duty, slow-speed drill (400 to 600 rpm) with a Jiffy Mixer for one minute. Pour the material onto the floor and spread out with a 15 mil notched squeegee. Backroll the area with a medium nap roller to remove squeegee lines using long roll strokes to decrease the visibility of roller lines. For vertical surfaces, pour a bead of material along the base of the wall. Using a medium nap roller, roll the material up onto the vertical surface. The wet film thickness of the coating is 10 to 12 mil/250 to 300 microns. Check the thickness with a wet film gauge.

## CURING

The surface of Stonchem 882 will be tack-free in one hour. Area may be returned to dry service after 4 hours and full service after 48 hours of cure at 70°F/21°C. Ultimate physical characteristics will be achieved in 7 days.

## PRECAUTIONS

- Avoid contact with Stonchem 882 resin (vinyl ester resin and styrene monomer) and peroxide (catalyst/organic peroxide), as they may cause skin, respiratory and eye irritation.
- Acetone is recommended for cleanup of Stonchem 882 resin (vinyl ester resin and styrene monomer) and peroxide (catalyst/organic peroxide) material 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 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 vapors may cause severe headaches, nausea and possibly unconsciousness.

## NOTES

- Specific information regarding chemical resistance is available in the Stonchem 800 Series Chemical Resistance Guide. If a coating is utilized to seal the Stonchem 882 surface, please ensure that you consult the Product Data sheet for the coating for details regarding chemical resistance of the coating utilized.
- Safety Data Sheets for Stonchem 882 are available online at [www.stonhard.com](http://www.stonhard.com) under Products or upon request.
- A staff of technical service engineers is available to assist with installation or to answer questions related to Stonhard products.
- Requests for literature can be made through local sales representatives and offices or corporate offices located worldwide.
- The appearance of all floor, wall and lining systems will change over time due to normal wear, abrasion, traffic and cleaning. Generally, high-gloss coatings are subject to a reduction in gloss, while matte-finish coatings can increase in gloss level under normal operating conditions.

- Surface texture of resinous flooring surfaces can change over time as a result of wear and surface contaminants. Surfaces should be cleaned regularly and deep cleaned periodically to ensure no contaminant buildup occurs. Surfaces should be periodically inspected to ensure they are performing as expected and may require traction-enhancing maintenance to ensure they continue to meet expectations for the particular area and conditions of use.

**IMPORTANT:**  
Stonhard believes the information contained here to be true and accurate as of the date of publication. Stonhard makes no warranty, expressed or implied, based on this literature and assumes no responsibility for consequential or incidental damages in the use of the systems described, including any warranty of merchantability or fitness. Information contained here is for evaluation only. We further reserve the right to modify and change products or literature at any time and without prior notice.

06/19  
© 2019 Stonhard [www.stonhard.com](http://www.stonhard.com)



<b>USA HQ</b>	(800) 257 7953	<b>Mexico</b>	+ (52) 55 9140 4500	<b>Belgium</b>	+ (32) 67 49 37 10	<b>South Africa</b>	+ (27) 11 254 5500	<b>Australia</b>	+ (61) 3 9587 7433
<b>Canada</b>	(800) 263 3112	<b>Argentina</b>	+ (54) 11 5032 3113	<b>Dubai, UAE</b>	+ (971) 4 3470460	<b>China</b>	+ (86) 21 61838698	<b>India</b>	+ (91) 22 28500321