

STONCHEM[®] 756

PRODUCT DESCRIPTION

Stonchem 756 is a chlorendic acid-based, unsaturated polyester, resin lining system applied at a nominal thickness of 60 mil/1.5 mm. The resin, engineering fabric, mortarcoat, mineral composite topcoat sequencing provides a smooth, heavy-duty chemical barrier which is resistant to small static cracks and moderate thermal shock. The Stonchem 756 system has excellent resistance to strong oxidizers such as concentrated nitric and chromic acids.

USES, APPLICATIONS

- · Secondary containment areas/tank farms
- · Concrete sumps, vaults and trenches
- Pump pads and pedestals
- Storage tanks
- Neutralization pits

PRODUCT ADVANTAGES

- Excellent chemical resistance to strong oxidizers such as concentrated nitric and chromic acids
- Engineering fabric aids in crack resistance
- Mortarcoat for added abrasion resistance
- · Mineral composite topcoat for increased impermeability
- Factory proportioned units for easy application

CHEMICAL RESISTANCE

Stonchem 756 is formulated to resist a variety of chemical solutions. Refer to the Stonchem 700 Series Chemical Resistance Guide for lists of reagent concentrations and temperature recommendations.

PACKAGING

Stonchem 756 is packaged in units for easy handling. Each unit consists of:

Saturant

2 cartons of Stonchem 700 Liquids

- A carton contains: 2 jars of Peroxide
 - 2 cans of Resin

Engineering Fabric

1 roll of Engineering Fabric 200 sq. ft./18.58 sq. m roll

Mortarcoat 1 carton of Stonchem 700 Liquids A carton contains: 2 jars of Peroxide 2 cans of Resin 2 bags of Mortarcoat aggregate

Topcoat 1 carton of Stonchem 700 Topcoat A carton contains: 2 jars of Peroxide 2 cans of Resin

COVERAGE

Each unit of Stonchem 756 will cover approximately 180 sq. ft./16.72 sq. m at a thickness of 60 mil/1.5 mm.

Note: If utilizing chopper gun applied fiberglass, there will be a reduction in saturant coverage. Questions regarding coverage rates should be directed to your local Stonhard representative or Technical Service.

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. Store all engineering fabric in a clean and dry area. **SUBSTRATE**

PHYSICAL CHARACTERISTICS

| Tensile Strength | 9,000 psi |
|---|--------------------------------|
| (ASTM D-638) Flexural Strength | 12,000 psi |
| (ASTM C-580) Flexural Modulus of Elasticity | 6 x 10 ⁵ psi |
| (ASTM C-580) Hardness | 85 to 90 |
| (ASTM D-2240, Shore D) Abrasion Resistance (ASTM D-4060, CS-17) | .0.10 gm max. weight loss |
| Thermal Coefficient | |
| of Linear Expansion (ASTM C-531) | 2 x 10 ⁻⁵ in./in.°F |
| Color | Gray |
| VOC Content | |
| | 700 Topcoat - 41 g/l |

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual system, including binder and filler, were used as test specimens.

Stonchem 756, 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 you local Stonhard representative or Technical Service.

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 700 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 700 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 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 756. 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 the application of the Saturant — Basecoat.

APPLYING

Saturant — Basecoat

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 saturant onto the substrate and spread out with a 15 mil notched squeegee. The saturant should be spread out in a sequence to allow for easy application of the engineering fabric. Do not leave any puddling during this squeegee step. Puddling will lead to over saturation of the fiberglass.

Engineering Fabric

Place the engineering fabric on the saturant immediately after the saturant is applied. This is important to achieve maximum wetting. Press the engineering fabric into the saturant with dry, medium nap roller. Overlap adjacent engineering fabric 1 in./26 mm. Immediately apply the saturant.

Saturant

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. Apply the saturant to the engineering fabric with a saturated medium nap roller. To wet the roller, dip it into the mixing container. Always work from the bucket. Do not pour the saturant directly onto the engineering fabric. This will decrease the saturant's coverage. The use of plastic mixing buckets will increase the pot life of the material during warmer working conditions. The engineering fabric is completely saturated when white strands are no longer present. When the engineering fabric is completely saturated, roll with a ribbed roller to release air pockets in the reinforcement and to embed the engineering fabric into the mortar. To saturate the overlaps, roll several times over the length of the overlap with a saturated roller, then roll with a ribbed roller several times until the overlap is no longer visible. Allow engineering fabric and saturant to cure (usually 2 to 4 hours) before proceeding.

Mortarcoat

Lightly sand the engineering fabric/saturant layer in areas with protruding fibers. Pre-mix the peroxide and resin in a 5-gallon mixing container with a heavy-duty, slow-speed drill (400 to 600 rpm) with a Jiffy Mixer for one minute. Next, gradually add the mortarcoat aggregate while mixing for an additional 2 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 and, using a medium nap roller, roll the material 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 756 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 756 resin (polyester 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 756 resin (polyester 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.
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- 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.
- During prep-work of floor substrate or mixing of Stonhard product while adding aggregate, dust masks must be worn.

NOTES

- Safety Data Sheets for Stonchem 756 are available online at www.stonhard.com under Products or upon request.
- Specific information regarding the chemical resistance of Stonchem 756 is available in the Stonchem 700 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:

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.



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