

### PRODUCT DESCRIPTION

Stonchem 601 is a highly cross-linked, novolac epoxy lining system applied at a nominal thickness of 625 microns. Two coats of the mineral composite filled coating is ideal for the coating of bases, piers, walls and concrete structures. A one coat, 250 to 300 microns, application will renew the surface of an aged lining system. The Stonchem 601 system has excellent resistance to concentrated sulfuric acids, chlorinated solvents and caustics.

### USES, APPLICATIONS

- Secondary containment areas
- Concrete pads and pedestals
- Splash/spill areas

### PRODUCT ADVANTAGES

- Excellent chemical resistance to concentrated sulfuric acids, chlorinated solvents and caustics
- Mineral composite filled for increased impermeability
- Factory proportioned units for easy application

### CHEMICAL RESISTANCE

Stonchem 601 is formulated to resist a variety of chemical solutions. Refer to the Stonchem 600 Series Chemical Resistance Guide which lists reagent concentration and temperature recommendations for each product.

### PACKAGING

Stonchem 601 is packaged in units for easy handling. Each unit consists of:

#### Topcoat

2 cartons of Stonchem 600 Series Topcoat

A carton contains:

- 4 foil bags of amine
- 4 poly bags of resin

### COVERAGE

Each unit of Stonchem 601 will cover approximately 16.72 m<sup>2</sup> at a thickness of 625 microns.

### STORAGE CONDITIONS

Store all components between 50 to 75°F/10 to 24°C in a dry area. Keep out of direct sunlight. When stored in the unopened containers at the proper temperatures, the shelf life is 3 years.

### PHYSICAL CHARACTERISTICS

Tensile Strength (ASTM D-638)	27 N/mm <sup>2</sup>
Flexural Strength (ASTM C-580)	68 N/mm <sup>2</sup>
Flexural Modulus of Elasticity (ASTM C-580)	6.8 x 10 <sup>3</sup> N/mm <sup>2</sup> i
Hardness. (ASTM D-2240, Shore D)	85 to 90
Abrasion Resistance (ASTM D-4060, CS-17)	0.12 gm max. weight loss
Thermal Coefficient of Linear Expansion (ASTM C-531)	1.5 x 10 <sup>-5</sup> m/mm°C
Color	Gray

**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.

### SUBSTRATE PREPARATION

Proper preparation 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 and rinsing with clean water. The surface must show open pores throughout and have a sandpaper texture. For recommendations or additional information regarding substrate preparation, contact Stonhard's Technical Service Department.

### APPLICATION GUIDELINES

Before mixing and applying any material, make sure environmental conditions are satisfactory for application. For optimal working conditions, the substrate temperature must be between 15 to 27°C. Measure the surface temperature with a surface thermometer. Cold areas must be heated until the slab temperature is above 13°C. This will allow the material to achieve a proper cure. Also, 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 27°C) will aid in the material's workability; however, a hot substrate (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.

## APPLYING

### Priming

Vacuum before priming and make sure the substrate is dry. The use of HT Primer is necessary in all applications of Stonchem 601. This ensures maximum product performance. (See the HT Primer product data sheet for details.)

**Note:** HT Primer must be tack-free prior to application of Stonchem 601.

### First Coat

After allowing the primer to cure, mix the amine and resin in a 5 gallon mixing bucket 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 onto the wall. The wet film thickness of the coating is 250 to 300 microns. Check the thickness with a wet film gauge.

### Second Coat

Apply the same as the first coat.

## CURING

The surface of Stonchem 601 will be tack-free in 4 to 6 hours at 21°C. The coated area may be put back into service in 24 hours at 21°C. Ultimate physical characteristics will be achieved in 7 days.

## RECOMMENDATIONS

- Apply only on clean, sound, dry and properly prepared substrate.
- Minimum ambient and surface temperatures are 13°C at the time of application.

### 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.

- Maximum surface temperatures should not exceed 32°C during the time of application.
- Substrate temperature should be greater than 3°C above dew point.
- Application and curing times are dependent upon ambient and surface conditions. Consult Stonhard's Technical Service Department if conditions are not within recommended guidelines.
- Avoid contact with Stonchem 601 amine and resin. They may cause skin, respiratory and eye irritation.
- Toluene or Xylene solvents are recommended for clean up of Stonchem 601 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/MSHA approved respirators using an organic vapor acid gas cartridge is recommended.
- The selection of proper protective clothing and equipment will significantly reduce the risk of injury. Body covering apparel, safety goggles and impermeable nitrile gloves are highly recommended.
- In case of contact, flush the area with copious amounts of 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

- Material Safety Data Sheets for Stonchem 601 are available upon request.
- Specific information regarding chemical resistance of Stonchem 601 is available in the Stonchem 600 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.

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