

### PRODUCT DESCRIPTION

Stonchem 530 is a high solids epoxy lining system applied at thicknesses of 60 mil/1.5 mm and 125 mil/3 mm. The broadcast sequencing provides a textured, heavy-duty barrier against chemical attack and abrasion. The Stonchem 530 system has moderate resistance to acids and alkalies.

### USES, APPLICATIONS

- Plating lines
- Drum storage
- Traffic aisles
- Chemical processing
- Chemical storage rooms
- Secondary containment

### PRODUCT ADVANTAGES

- Excellent chemical resistance to a broad range of acids, bases and solvents
- Mineral composite topcoat for increased
- impermeability
- Factory proportioned units for easy application

### CHEMICAL RESISTANCE

Stonchem 530 is formulated to resist a variety of chemical solutions. Refer to the Stonchem 500 Series Chemical Resistance Guide for lists of reagent concentrations and temperature recommendations.

### PACKAGING

Stonchem 530 is packaged in units for easy handling. Each unit consists of:

#### 60 mil lining

5 cartons of Stonchem 500 Series Base Coat/Topcoat  
A carton contains:  
4 foil bags of amine  
4 poly bags of resin  
9 bags of aggregate

#### 125 mil lining

5 cartons of Stonchem 500 Series Base Coat/Topcoat  
A carton contains:  
4 foil bags of amine  
4 poly bags of resin  
7 bags of aggregate

### COVERAGE

Stonchem 530 at 60 mil will cover 400 sq. ft./37.2 sq. m per unit. Stonchem 530 at 125 mil will cover 245 sq. ft./22.7 sq. m per unit.

**Note:** Coverage rates shown are theoretical. Actual coverage rates may vary. Make necessary allowances for the condition of the surface to be coated, working conditions, waste, spillage, experience level and skill of the installers, etc.

### 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 3 years in the original, unopened container.

### SUBSTRATE PREPARATION

#### General

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. For recommendations or additional information regarding substrate preparation, please contact Stonhard's Technical Service Department.

### PHYSICAL CHARACTERISTICS

Compressive Strength .....	14,000 psi
(ASTM C-579)	
Tensile Strength.....	6,300 psi
(ASTM D-638)	
Flexural Strength .....	9,500 psi
(ASTM C-580)	
Flexural Modulus of Elasticity .....	1.1 x 10 <sup>6</sup> psi
(ASTM C-580)	
Hardness .....	75
(ASTM D-2240, Shore D)	
Abrasion Resistance .....	0.056 gm max. weight loss
(ASTM D-4060, CS-17)	
Thermal Coefficient	
of Linear Expansion .....	1.11 x 10 <sup>-5</sup> in./in.°C
(ASTM C-531)	
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.

## 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 60 to 80°F/15 to 27°C. Measure the surface temperature with a surface thermometer. Cold areas must be heated until the slab temperature is above 50°F/10°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 (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 should be greater than 5°F/3°C above dew point.

## APPLYING

### *Priming*

All surfaces to which Stonchem 530 will be applied must be primed, steel as well as concrete. Use only HT Primer. Mix and apply HT Primer in accordance with the product data sheet. Avoid puddling. Allow the primer to cure tack-free.

### *Stonchem 530 – 60 mil system*

- Mix the amine and resin components of Stonchem 530 thoroughly.
- Apply a 25 mil/625 microns Base Coat of Stonchem 530 liquids by roller or squeegee.
- While wet, immediately broadcast the aggregate. Do not allow the aggregate to be broadcast ahead of the applicator. Broadcast the aggregate until a dry layer is achieved. Allow the coating to cure. Remove the excess aggregate.

Note: When broadcasting in a large or congested area, it may be desirable for workers to wear spike shoes (e.g., golf shoes) to enable them to walk out onto the coating without disturbing it.

Apply a 15 mil/375 microns Topcoat to the surface or apply enough material to achieve the desired non-skid surface texture.

### *Vertical Surfaces*

Consult your local Stonhard representative or the Stonhard Technical Service Department for a recommendation.

### *Stonchem 530 – 125 mil system*

- Mix the amine and resin components of Stonchem 530 thoroughly.
- Apply a 50 mil/1.25 mm Base Coat of Stonchem 530 liquids by roller or squeegee.
- While wet, immediately broadcast the aggregate. Do not allow the aggregate to be broadcast ahead of the applicator. Broadcast the aggregate until a dry layer is achieved. Allow the coating to cure. Remove the excess aggregate.

Note: When broadcasting in a large or congested area, it may be desirable for workers to wear spike shoes (e.g., golf shoes) to enable them to walk out onto the coating without disturbing it.

- Apply a 15 mil/375 microns Topcoat to the surface, or apply enough material to achieve the desired non-skid surface texture.

### *Vertical Surfaces*

Consult your local Stonhard representative or the Stonhard Technical Service Department for a recommendation.

## CURING

The surface of Stonchem 530 will be tack-free in 12 to 18 hours at 70°F/21°C. For chemical service, the coated area may be put back in service in 36 hours at 75°F/24°C. Ultimate physical characteristics will be achieved in 7 days.

## RECOMMENDATIONS

- Apply only on clean, sound, dry and properly prepared substrates.
- Minimum ambient and surface temperature is 55°F/13°C at the time of application.
- Maximum surface temperature should not exceed 90°F/32°C during application. Substrate temperatures above 100°F/38°C will drastically affect the working time of the product.
- Substrate temperature should be greater than 5°F/3°C above dew point.
- Material should not be applied if humidity is above 85%.
- Application and curing times are dependent upon ambient and surface conditions. Consult Stonhard's Technical Service Department if conditions are not within recommended guidelines.

## PRECAUTIONS

- Toluene or Xylene solvents are recommended for clean-up of Stonchem 530 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.
- Avoid contact with the liquids as they may cause skin and/or eye irritation. In the case of eye contact, immediately flush the area with copious amounts of clean water for at least 15 minutes and seek medical attention. Workmen should cover hands with impervious gloves & wear safety glasses. Wash hands thoroughly with soap and water after use and before eating, smoking, etc. A N95 NIOSH approved dust mask must be worn during substrate preparation. Use only with adequate ventilation.

## NOTES

- Safety Data Sheets for Stonchem 530 are available online at [stonhard.com](http://stonhard.com) under Tech Info or upon request.
- Specific information regarding chemical resistance of Stonchem 530 is available in the Stonchem 500 Series Chemical Resistance Guide.
- A staff of technical service engineers is available to assist in product application or to answer questions related to Stonhard 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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