

PRODUCT DESCRIPTION

Stonset TG5 is a three-component, fast-setting, trowelable, epoxy based grout designed for permanent horizontal repairs to concrete foundations, decks, floors and structural surfaces. Stonset TG5 exhibits exceptional strength and excellent chemical resistance.

PACKAGING

Stonset TG5 is packaged in units for easy handling. Each unit consists of:

- 1 carton containing:
 - 6 foil bags of Amine
 - 6 poly bags of Resin
- 6 individual bags of aggregate

COVERAGE

Approximately 2.0 cu. ft./0.06 cu. m per unit (0.33 cu. ft./0.01 cu. m per mix).

STORAGE CONDITIONS

Store all components of Stonset TG5 between 60 to 85°F/16 to 29°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 3 years in the original, unopened container.

SUBSTRATE

Stonset TG5, with the appropriate primer, is suitable for application over concrete, wood, brick, quarry tile or metal. 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. Questions regarding substrate preparation should be directed to your local Stonhard representative or Technical Service.

PRIMING

Standard Primer must be used in all applications of Stonset TG5. The prepared substrate should be primed with Standard Primer prior to applying the grout. After initial set, the top surface of Stonset TG5 must be primed with Stonset Primer prior to the application of any other coating or Stonhard flooring system.

MIXING

Note: Do not start mixing until the surface is properly prepared and dry, with the temperature of both the Stonset TG5 and the surface at least 60°F/16°C or higher.

- Proper mixing is critical to exhibit the proper application, cure and physical properties.
- Empty the contents of liquids into a 5-gallon pail. Utilizing a JB Power Blender, mix the liquids for one minute.
- Add the contents of one bag of aggregate. Mix for one minute or until a homogeneous mortar is achieved.

APPLYING

The mixed Stonset TG5 must be placed before the Standard Primer has cured. Spread and compact Stonset TG5 with a steel finishing trowel. Stonset TG5 must be well compacted prior to smoothing the surface. Deep areas must be placed and compacted in 2 in./50.8 mm layers. Material will not be compacted properly if lift thicknesses exceed 2 in./50.8 mm.

- When filling holes and ruts, use the surrounding floor level as a guide for the trowel.
- For larger areas or changing floor levels, use screeds and a straight-edge to obtain the desired thickness.
- To maintain physical properties, do not place Stonset TG5 at less than 0.5 in./12 mm.

CURING

The initial set time for Stonset TG5 is 6 to 8 hours. Overlayment may begin at this time. The grouted area may be put back into service in 12 hours. Ultimate physical characteristics will be achieved in 7 days. The curing time may vary depending upon ambient and surface conditions.

PHYSICAL CHARACTERISTICS

Compressive Strength 7,400 psi (ASTM C-579)..... after 7 days
Tensile Strength..... 1,800 psi (ASTM C-307)
Flexural Strength..... 2,800 psi (ASTM C-580)
Flexural Modulus of Elasticity 8.5 x 10 ⁵ psi (ASTM C-580)
Hardness..... 86 to 88 (ASTM D-2240, Shore D)
Pot Life..... 30 minutes (@ 70°F/21°C)
Initial Set..... 3 to 4 hours (ASTM C-308)..... (@ 70°F/21°C)
Cure Rate..... 6 to 8 hours (ASTM C-308)..... (@ 70°F/21°C)
VOC Content..... 50 g/l (ASTM D-2369, Method E)

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.

RECOMMENDATIONS

- Minimum ambient and surface temperature is 60°F/16°C at the time of application.
- Apply only on a clean, sound, and properly prepared surface.
- Material must be mixed to a uniform consistency. Do not mix over 3 minutes.
- Application and curing times are dependent upon ambient and surface conditions.
- Clean tools immediately with either scouring pads and water, or mineral spirits. Hardened material will require mechanical removal.

PRECAUTIONS

- Both amine and resin are skin and eye irritants – 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 the area with water for 15 minutes and seek medical attention. Wash skin with soap and water.
- Use only with adequate ventilation.

NOTES

- Material Safety Data Sheets for Stonset TG5 are available on line at www.stonhard.com under Products or upon request.
- A staff of technical service engineers is available to assist with application, or to answer questions related to Stonhard's products.
- Requests for technical literature or service can be made through local sales offices, or corporate offices located world- wide.

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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