STONHARD

# STONSET®TG5

PRODUCT DATA

## PRODUCT DESCRIPTION

Stonset TG5 is a three-component, fast-setting, trowellable, 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.

## USES, APPLICATIONS

Stonset TG5 may be used for repairing deep holes, ruts and erosions in concrete floors and for changing the level or pitch of floors in preparation for coating or overlayment. Production floors, workshops, loading docks and ramps are among a few of the typical applications for this solvent-free, rapid hardening, durable, epoxy grout.

## PRODUCT ADVANTAGES

- 100% solids, solvent-free
- Excellent mechanical strengths
- Minimal shrinkage
- Rapid hardening
- Excellent bond strength assures superior adhesion
- Easy to use, fast-setting, labour saving system
- Factory proportioned packaging ensures consistent, high quality and simplified mixing

## PACKAGING

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

1 carton containing:

6 foil bags of Part A (curing agent)

6 poly bags of Part B (resin)

6 individual bags of Part C (aggregate)

## COVERAGE

Approximately 0.06 $m^3$ per unit (0.01 $m^3$ per mix).

## STORAGE CONDITIONS

Store all components of Stonset TG5 between 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.

## PHYSICAL CHARACTERISTICS

| | |
|---|---|
| Compressive Strength (ASTM C-579) | 50 N/mm² after 7 days |
| Tensile Strength (ASTM C-307) | 22 N/mm² |
| Flexural Strength (ASTM C-580) | 22 N/mm² |
| Flexural Modulus of Elasticity (ASTM C-580) | 5.8 kn/mm² |
| Hardness (ASTM D-2240, Shore D) | 86 to 88 |
| Pot Life (@ 24˚C) | 30 minutes |
| Initial Set (ASTM C-308) | 3 to 4 hours (@ 21˚C) |

**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.

## SUBSTRATE PREPERATION

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 (Stonkleen DG10) 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.

## 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 16˚C or higher.

1. Empty the contents of Part A (curing agent) and Part B (resin) into a five gallon pail. Utilizing a JB Power Blender, mix the liquids for one minute.
2. Add the contents of one bag of Part C (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 50.8 mm layers. Material will not be compacted properly if lift thicknesses exceed 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 12 mm.

## CURING

The initial set time for Stonset TG5 is 3 to 4 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.

## RECOMMENDATIONS

- Minimum ambient and surface temperature is 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

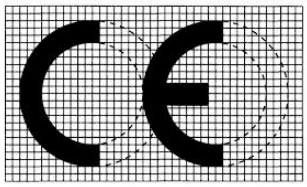
- Both liquid Parts A and B are skin and eye irritants – avoid contact. Safety glasses and impervious gloves are recommended when handling this material.
- In case of contact, flush the area with water for 15 minutes and seek medical attention. Wash skin with soap and water.
- Use only with adequate ventilation.

## NOTES

- Material Safety Data Sheets for Stonset TG5 are available on line at www.stonhard.com under Tech Info 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.

## CE MARKING

The harmonized European Standard EN 13813 "Screed material and floor screeds - Screed materials - Properties and requirements" specifies the requirements for screed materials for use in floor construction internally. Resinous flooring systems as well as resinous screeds fall under this specification they have to be CE-labelled as **per Annex ZA., Table ZA.1.5 and 3.3** and fulfil the requirements of the given mandate of the Construction Products Regulation no. 305/2011



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EC-DOP-2013.11.002

EN 13813 SR-C50-F20-B2.0

Synthetic resin screed material for use internally in buildings (system as per Product Data Sheet)

| | |
|---|---|
| Release of corrosive substances: | SR |
| Compressive strength: | C50 |
| Flexural strength: | F20 |
| Adhesion strength by pull-off test: | > B2.0 |
| Chemical resistance: | CRG[1] |

[1] CRG: see Stonhard Chemical Resistance Guide



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