

PRODUCT DESCRIPTION

Stonset CG5 is a four-component, castable, epoxy based grout designed for setting heavy equipment and machinery in place. Stonset CG5 exhibits exceptional strength and vibration resistance along with excellent flow and rapid setting characteristics.

USES, APPLICATIONS

Stonset CG5 may be used as a setting grout for vibrating machinery where impact strength is required such as:

- Engines
- Pumps
- Compressors
- Forges
- Tanks
- Constructing curbs, walls and dikes

PRODUCT ADVANTAGES

- Superior vibration resistance
- High compressive and flexural strengths
- Excellent bond strength assures superior adhesion
- Excellent mechanical strength
- 100% solids, solvent-free
- Factory proportioned packaging ensures consistent high quality and simplified mixing

PACKAGING

Stonset CG5 is packaged in units for easy handling. Each unit consists of:

One carton containing:

- 6 foil bags of Part A (curing agent)
- 6 poly bags of Part B (resin)
- 6 individual bags of Part C-1 (aggregate)
- 6 individual bags of Part C-2 (aggregate)

COVERAGE

Approximately 0.06 m³. per unit (0.01 m³ per mix).

STORAGE CONDITIONS

Store all components of Stonset CG5 at or above 16°C in a dry area. Avoid excessive heat. Do not freeze. The shelf life is 3 years in the original, unopened container.

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 (Stonkleen DG2) 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, please contact Stonhard's Technical Service Department.

PREPARING METAL

If necessary, reinforce metal to prevent equipment from moving or flexing. All metal surfaces that will be directly in contact with Stonset CG5 must be cleaned to white metal by removing all rust, mill scale, coatings, oil, grease, dirt and other contaminants.

After abrasive blasting, grinding or wire brushing, wash with solvent to remove all traces of dust, grease or oil. Do not use mineral spirits

PHYSICAL CHARACTERISTICS

Compressive Strength (ASTM C-579)	87 N/mm ² after 7 days
Tensile Strength (ASTM C-307)	14 N/mm ²
Flexural Strength (ASTM C-580)	27 N/mm ²
Hardness (ASTM D-2240/Shore D)	86-88
Working Time @ 21°C	1 hour
Initial Set @ 21°C (ASTM C-308)	8 hours

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 specimen

FORM PREPARATION

Forms used to contain the Stonset CG5 should provide a grout level of a minimum 19 mm above the machine base. Although lumber is generally used for the forms, any material of adequate strength and tightness to contain the grout may be used. In confined areas, the forms should be set up to provide a hydraulic head for the grout. The forms must be liquid tight to prevent loss of material, as Stonset CG5 is very flowable. Foam rubber, caulking or weather-stripping can be placed into cracks at the bottom of the forms to prevent liquid loss.

It is very important that the forms be treated to prevent the Stonset CG5 from bonding to them. A colored paste wax or form release agent may be used. But in situations where the formed grout is to be overlaid, the wax or form release agent can inhibit bonding. In these situations it is best to line the forms with plastic or clear box sealing tape.

PRIMING

Stoncrest GS3 should be used in all applications of Stonset CG5 where a metal surface is in contact with the grout and the grouting does not immediately follow the preparation. This is done to avoid flash rusting of the substrate. Priming is not necessary for applications over properly prepared concrete surfaces.

PRODUCT MIXING

Note: Do not start mixing until the surface is properly prepared and dry, with the temperature of both the Stonset CG5 and the surface at least 13°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-1 and 1 bag of Part C-2 (aggregate). Mix for one minute or until a homogeneous grout is achieved.

APPLYING

The mixed Stonset CG5 is poured starting at one end of the equipment and working toward the opposite end. This is done to displace any air pockets that might form under the equipment. Using a trowel or push rod, force material underneath the equipment by exerting a downward pressure. Be sure to use the first portion of each new mix to make up for any loss of material due to flow of the grout from under the piece of equipment. This procedure should provide a positive head to aid in placing the grout.

CURING

The temperatures of the equipment and surface will determine the rate of cure of Stonset CG5. At 21°C the cure time before removing the forms is 6 hours and the cure time before placing into service is 24 hours.

RECOMMENDATIONS

- Minimum ambient and surface temperatures are 13°C at the time of application.
- Apply only on a clean, sound, and properly prepared substrate.
- Material must be mixed to uniform consistency - Do not mix over three minutes!
- Application and curing times are dependent upon ambient 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.
- The use of safety glasses and impervious gloves is required during application.
- In case of contact, flush area with copious amounts of water for 15 minutes and seek medical attention. Wash skin with soap and water.
- Use only with adequate ventilation.

NOTES

- For environments not referenced in the Chemical Resistance Guide, consult Stonhard's Technical Service Department for recommendations.
- Material Safety Data Sheets for Stonset CG5 are available online at www.stoncor-europe.com under Tech Info or upon request.
- A staff of technical service engineers is available to assist with application, or 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 throughout the world.

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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I3	
DOP-2013.11.008	
EN 13813 SR-C80-F25-B2.0	
Synthetic resin grouting material for use internally in buildings (system as per Product Data Sheet)	
Release of corrosive substances:	SR
Compressive strength:	C80
Flexural strength:	F25
Adhesion strength by pull-off test:	> B2.0
Chemical resistance:	CRG ¹
¹ CRG: see Stonhard Chemical Resistance Guide	

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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