STONHARD

STONSET® CR5

PRODUCT DATA

PRODUCT DESCRIPTION

Stonset CR5 is a heavy-duty, fast-setting epoxy grout that is designed for use beneath any Stonhard lining system. It is a four component system that is based on a multifunctional liquid epoxy resin and is used for permanent horizontal repairs to concrete foundations, decks and floors.

USES, APPLICATIONS

Stonset CR5 may be used for repairing deep holes, ruts and erosions in concrete floors and for changing the pitch of floors in preparation for coating or overlayment in areas with moderate chemical exposure. Typical applications for this solvent free, rapid hardening, epoxy grout are:

- Production floors
- Workshops
- Loading docks and ramps
- Containment areas

PRODUCT ADVANTAGES

- 100% solids
- Excellent mechanical strengths
- Rapid hardening
- Easily installed to clean, sound substrates
- Factory proportioned packaging ensures consistent, high-quality and simplified mixing
- Easy to use, fast-setting, labor saving system

PACKAGING

Stonset CR5 is supplied in pre-measured units to eliminate on-site measuring errors.

Each unit consists of:

- 1 carton containing:
  - 6 foil bags of amine
  - 6 poly bags of resin
  - 6 individual bags of Part C aggregate
- 1 carton containing:
  - 6 bags of Part C-1 aggregate

COVERAGE

Approximately 0.06 m^3 per unit, 0.01 m^3 per mix.

STORAGE CONDITIONS

Store Stonset CR5 at 16 to 30˚C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 12 months in the original, unopened container.

PHYSICAL CHARACTERISTICS

Compressive Strength (ASTM C-579)	53 N/mm^2
Tensile Strength (ASTM C-307)	12.7 N/mm^2
Flexural Strength (ASTM C-580)	22.7 N/mm^2
Flexural Modulus of Elasticity (ASTM D-790)	8.5 x 10^5
Pot Life (@24˚C)	30 minutes

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 (Stonkleen DG9) 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.

POT LIFE

Stonset CR5 has a working time of approximately 30 minutes at 25˚C. The working time may vary depending upon ambient and surface conditions.

PRIMING

Stonset CR5 must be used in conjunction with HT Primer in all applications. The prepared substrate should be primed prior to application of Stonset CR5. After the initial set of the grout, the top surface must be primed with Stonset Primer before application of the Stonhard flooring system.

MIXING

Note: Do not start mixing until the surface is properly prepared and dry, with the temperature of both the Stonset CR5 and the surface between 16 to 30˚C or higher. Empty the contents of the resin and the amine into a 5 gallon pail. Using a JB Power Blender mix the liquids for one minute. Empty one bag of Part C aggregate into the blender and while mixing add one bag of Part C-1 aggregate. Mix for one minute or until a homogeneous mortar is achieved. After mixing, Stonset CR5 has a working time of approximately 30 minutes at 24˚C. The working time may vary depending upon ambient and surface conditions.

APPLYING

The mixed Stonset CR5 must be placed before the HT Primer has cured. Spread and compact Stonset CR5 with a steel finishing trowel. Stonset CR5 must be well compacted prior to finishing 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 with a level to obtain the desired thickness.
- To maintain physical properties, do not place CR5 at less than 12 mm thickness.

CURING

The initial set time for Stonset CR5 is 2 to 3 hours. Overlayment may begin at this time. Ultimate physical characteristics will be achieved in 7 days. The curing time may vary depending upon ambient and surface conditions.

RECOMMENDATIONS

- Apply only on a clean, sound, and properly prepared surface.
- Minimum ambient and surface temperatures are 16˚C at the time of the application.
- 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

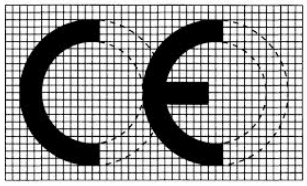
- Toluene or Xylene solvents are recommended for clean-up of unreacted Stonset CR5 material. The reacted materials must be removed by mechanical means. Use these materials only in strict accordance with the manufacturer's recommended safety procedures.
- Dispose of waste materials in accordance with federal, state and local regulations.
- NIOSH/MSHA approved respirators, safety goggles and impervious gloves are 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.
- Use only with adequate ventilation.

NOTES

- Material Safety Data Sheets for Stonset CR5 are available 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 worldwide.

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-labeled as **per Annex ZA., Table ZA.1.5 and 3.3** and fulfill the requirements of the given mandate of the Construction Products Regulation no. 305/2011



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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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