

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.

PACKAGING

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

Each unit consists of:

1 carton containing:

6 foil bags of Amine

6 poly bags of Resin

1 carton containing:

6 bags of Part C-1 Aggregate

6 individual bags of Part C-2 Aggregate

6 individual bags of Part C-3 Aggregate

COVERAGE

Approximately 0.06 m³ per unit, 0.01 m³ 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.

SUBSTRATE

Stonset CR5, 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

Stonset CR5 must be used in conjunction with Stonchem Epoxy Primer in all applications. The prepared substrate should be primed prior to application of Stonset CR5.

MIXING

Proper mixing is critical to exhibit the proper application, cure and physical properties.

- 1 Empty contents of resin and amine into a five gallon pail. Utilizing a JB Power Blender, mix the liquids for one minute.
- 2 Add the contents of one bag of C-1, one bag of C-2 and one bag of C-3 to the liquid mixture and mix for one additional minute or until a homogenous 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.

PHYSICAL CHARACTERISTICS

Compressive Strength (ASTM C-579)	53 N/mm ²
Tensile Strength (ASTM C-307)	13 N/mm ²
Flexural Strength (ASTM C-580)	23 N/mm ²
Flexural Modulus of Elasticity (ASTM D-790)	3.8 x 10 ³ N/mm ²
Pot Life (@24°C)	30 minutes
Cure Rate (@21°C)	2 to 4 hours shim removal
VOC Content (ASTM D-2369, Method E)	5 g/l

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.

APPLYING

The mixed Stonset CR5 must be placed before the Stonchem Epoxy 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.
- Steel finishing trowels are used to compact and smooth the surface of the material to the required 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

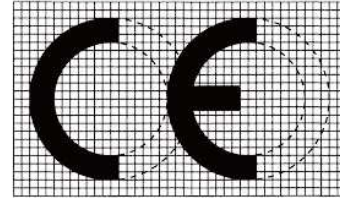
- Toluene or Xylene solvents are recommended for clean up of unreacted Stonset CR5 material. The reacted materials must be removed by mechanical means. Use these materials only in strict accordance with the manufacturer's recommended safety procedures.
- Dispose of waste materials in accordance with federal, state and local regulations.
- The use of NIOSH/MSHA approved respirators using an organic vapor/acid gas cartridge is mandatory.
- 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 copious amounts of water for 15 minutes and seek medical attention. Wash skin with soap and water.
- Use only with adequate ventilation.

NOTES

- Safety Data Sheets for Stonset CR5 are available online at www.stoncor-europe.com under Products or upon request.
- A staff of technical service engineers is available to assist with installation or to answer questions related to Stonhard products.
- Requests for literature can be made through local sales representatives and 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

¹CRG: 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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