

CC Quantum[®] CS

Crack Sealing Adhesive

CHARACTERISTICS

CC-Quantum CS crack sealing adhesive is a two-component modified epoxy resin adhesive with low viscosity. CC-Quantum SC is used for repairing surface or near surface cracks in concrete, masonry and wood.

APPLICATIONS

- Uneven and damaged substrate
- Protect exposed steel reinforcement from corrosion
- Mitigate the possibility of cracks propagating due to damaged substrates
- To be combined with CC Quantum A adhesive and CC Quantum S epoxy resin

BENEFITS

- Conforms well with substrate damage, holes, dents or similar
- No shrinking post cures
- Excellent long-term performance
- Good physical performance after curing, strong toughness
- Water and Corrosion resistant
- Excellent bonding compatibility with CC Quantum A and CC Quantum S

STANDARDS

- ASTM

DESCRIPTION

Form

Component	Texture	Colour
Part A: - Epoxy	Paste	Grey
Part B: - Hardener	Paste	White
Part A+B mixed	Paste	Light Grey

Technical Data

Mixing ratio (A: B)	2:1
Service Temperature	5-40°C
Pot life (in minutes)	>40 min at 25°C
Setting time	1-2 hrs. at 25°C
Steel-steel bonding strength	Shear: 20MPa Tensile: 35MPa

NOTE: All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

INSTRUCTIONS

Substrate Preparation

Prior to application of any CC Quantum material products it is expected that the substrate be appropriately prepared according to the following:

- Ensure that all surfaces are cleaned, this entails the removal of a surface contaminates such as oils, grease, dust and other contaminates which could affect the bonding of the CC Quantum system.
- Specifically, for Concrete, Mortar and Stone which is still in good working condition, it is recommended to Mechanically abrade the surface with a needle gun, water blast, grit blast or grind. For small areas wire brushing (mechanical) is adequate.
- For degraded substrates, it is recommended to remove the affected area and restore allowing sufficient time to cure before applying CC Quantum System.

Mixing

Part A: part B = 2: 1 by weight

Thoroughly stir both components Part A (Epoxy) and Part B (Hardener) separately using a slow running stirrer with a helical paste mixer or by hand if dealing with small quantities until a uniform colour is reached.

Application

- CC Quantum L shall be applied using trowel, spatula or other similar equipment which will allow for an even and smooth application.
- The adhesive shall be applied to ensure an even flat surface
- CC Quantum L shall be allowed to dry prior to additional working

Cleaning

Cleaning of applicator tools and surrounding surfaces can be achieved using an appropriate solvent (MEK or Acetone). Once the Adhesive has cured, the only means of removal shall be mechanically.

Important Notes

- For simplicity and accuracy related to curing times and strength, always mix a full adhesive kit.
- Avoid part mixture to ensure correct ratio of Resin and Hardener
- Always take note of pot life, ensure CC Quantum L can be completely applied within the given time for the working temperature.
- Avoid diluting the mixture as this will affect curing time and bonding strength.
- During mixing, ensure there are no trapped air bubbles as will affect curing time and bonding strength.
- Ensure there is no standing water or other liquids on the application surface.
- An increased curing temperature can accelerate curing time, refer to technical data above.

For further information, consult our Technical Experts.

Handling Precautions

- Use appropriate Personal Protective Equipment (PPE) when handling CC Quantum L mixture.
- At all times, avoid contact with the eyes and direct skin
- If mixture contacts eyes, immediately consult proceed to first aid to commence washing eye with water or specific eye bath liquid for up to 15 minutes. After which consult a doctor.
- If skin contact occurs, proceed to first aid and wash skin thoroughly.
- If mixture is swallowed, it is not recommended to induce vomiting. Rather proceed to first aid to receive medical attention.

For more information refer to Material Safety Data Sheet.

SIGNBOARD

The contents shall be clearly marked on the product package:

- a) Manufacturer and address.
- b) Product name, brand and standards.
- c) Date of manufacture and batch number.
- d) Product quantity.
- e) Attention.

PACKAGING

Part A(Epoxy): 20kg
Part B (Hardener): 10kg

TRANSPORT AND STORAGE

Store in dry conditions, storage temperatures should not drop below -5°C or exceed 40 °C, avoid direct sunlight and fire. Handle with care.

SHELF LIFE

When stored at room temperature(25°C), the shelf life will be at least 12 months from the date of manufacture.

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Important notice

The data and information provided in this datasheet represent the typical properties that can be obtained from these products when properly processed in a controlled environment. The user should make their own assessment of the suitability of these products for the purpose required by conducting appropriate testing under conditions as close as possible to the proposed manufacturing conditions. Any advice or recommendation is given in good faith and no further duty or responsibility is accepted by the company. All such advice and every sale is subject to Cathay Composite's standard terms and conditions. The company reserves the right to change specifications without notice and customers should satisfy themselves that they are using the current version of the Technical Data Sheet.