

Product Data Sheet

Caltech QC

Sheet No: CQC1

Issued: June 2018

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Description

Caltech QC is a 2-component, polymethylmethacrylate (PMMA) based waterproofing resin.

Use

For use as a waterproofing membrane on flat and pitched roofs, in both new build and refurbishment applications.

Approvals

- BBA Certificate 17/5392 ps 1

Initial mixing / decanting

- Thoroughly mix the resin in the drum with a slow speed agitator until the resin achieves a uniform consistency.
- If required, decant a measured weight of resin into a suitable receptacle.

Catalysing

- Measure the appropriate weight of Caltech QC Catalyst for the weight of resin and the temperature.
- Add the catalyst to the pre-mixed resin.
- Thoroughly mix the resin and catalyst using a slow speed mechanical agitator until the catalyst has been evenly distributed.
- Leave the resin and catalyst for 1 - 2 minutes to allow catalyst to dissolve.
- Re-mix prior to using the resin within the pot life.

Temperature	0°C - 5°C	5°C - 15°C	15°C - 35°C
Catalyst %	4%	4%	2%
Catalyst per 20.00kg of resin	0.80kg	0.80kg	0.40kg

Application

- Apply using a large Alumasc roller on a telescopic pole.
 1. Loading the roller with Caltech QC, apply an even layer adjacent to any details to the width of the reinforcement fleece embedment layer
 2. Immediately place the roll of reinforcement fleece into the wet resin and roll in the direction of application, pressing trapped air free using the wet but not loaded roller and ensuring a minimum 50mm overlap between reinforcement strips (100mm if left over 12 hours)
 3. Loading the roller with Caltech QC immediately apply a further even layer by roller wet-on-wet at or above the minimum specified consumption for the reinforcement fleece top layer ensuring the reinforcement fleece is fully encapsulated
 4. Repeat steps 1 - 3 until the main area is fully covered and allow to cure

Cleaning

- If overlaid after more than 12 hours, clean with Caltech QC Cleaner and overlay between 20 and 60 minutes after cleaning.
- If the substrate is contaminated, clean with Caltech QC Cleaner and overlay between 20 and 60 minutes after cleaning.
- Clean tools with Caltech QC Cleaner.

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Packaging	Resin: 20kg drums Catalyst: 0.10kg bag / 1kg bag / 25kg box
Colours	Blue Grey (RAL7031) / Pebble Grey (RAL7032)
Coverage	3kg/m ² (1st Coat 2kg/m ² + RF100 reinforcement, 2nd Coat 1kg/m ²)
Application	Large Alumasc roller on a telescopic pole
Winter/summer grades	The system is available in winter and summer grades, for use where application temperatures are between 0°C and 20°C, and 10°C and 35°C respectively.
Cure time	Rainproof after: approximately 30 minutes at +20°C Can be walked on / next layer applied: approximately 45 minutes at +20°C Can be subjected to loads after: approximately 2 hours at +20°C Maximum overcoat time: 6 months
Pot life	Approximately 15 minutes at +20°C Note: Pot life will be slightly increased at lower temperatures and slightly reduced at higher temperatures.
Storage	Can be stored unopened in a cool, dry, well ventilated place above freezing and out of direct sunlight in the original container. If the contents have been opened, re-seal ensuring the lid is air tight. Avoid direct sunlight on site.
Shelf-life	When stored in accordance with the manufacturer's instructions the product has a shelf-life of approx. 12 months. If in doubt, check that the material can be mixed homogeneously, there are no gelled lumps and that a test sample of the material cures with the correct amount of catalyst before use. Catalyst must be stored at a temperature below 30°C in closed containers, away from sources of ignition and protected from direct sunlight. Contamination and heat can cause the catalyst to decompose rapidly and create a hazard.

Health & Safety

Safety Data Sheets are available upon request, and can also be downloaded directly from www.alumascroofing.co.uk

Technical Support

Technical advice is available from Alumasc Technical Services at:

Telephone: +44 (0)1744 648400

Email: technical@alumascroofing.com

The company pursues a policy of constant product development and information contained in this publication is therefore subject to change without notice. The customer is responsible for ensuring that each product is fit for its intended purpose and that the conditions for use are suitable. All quoted data is nominal and subject to production tolerances.