

# Product Data Sheet

## Caltech QC Balcofloor

Sheet No: PDFR713/4

Issued: July 2021

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### Description

**Caltech QC Balcofloor** is a liquid applied three-component, polymethylmethacrylate (PMMA) based coating comprising Balcofloor resin, Balcofloor Filler and Caltech QC Catalyst.

### Use

Caltech QC Balcofloor is a BBA certified, fully reinforced waterproofing and surfacing system for walkways, balconies and terraces over occupied premises. The exceptionally fast curing, totally cold applied, solvent free, elastomeric system incorporates an ETA certified waterproofing membrane and is suitable for both refurbishment and new build.

The system is installed onto the completed Caltech QC Balcony system and completed with a 0.4-1.2mm quartz granule finish and Caltech QC finish/sealing coat.

### Approvals

- BBA Certificate 17/5392 ps 2

### System features

- Fully reinforced waterproofing membrane with 10 year warranty
- Unique technology provides the system with exceptional tensile strength and long-term resistance to regular and unforeseen movement, cracking and flexural fatigue.
- The reinforced membrane is ETA certified under ETAG 005 and the system is BBA certified.
- Durability and long-term protection
- The thick layer build-up provides exceptional long-term durability and is proven to withstand the demands of the walkway, balcony and terrace environment giving reliable waterproofing and protection in combination with functional surfacing.
- Substrate compatibility - including asphalt
- The system is compatible with virtually all existing substrates.
- Proven track record in overlaying failed asphalt.
- Cold applied and rapid curing – even at low temperatures
- No risks from hot works.
- Exceptionally rapid cure times minimise access restrictions.
- Year-round installation with minimum risk.

### Initial mixing / decanting

- Thoroughly mix the resin and filler at a ratio of 1 part resin to 2.3 parts filler in a 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 catalyst for the weight of resin and the temperature;
- Add the catalyst to the pre-mixed / decanted resin;
- Thoroughly mix the resin and catalyst using a slow speed mixer for a minimum 2 minutes until the catalyst has been evenly distributed and leave for a minimum of 1 minute to allow the catalyst to fully dissolve;
- Once fully dissolved, re-mix and add the filler by slowly pouring the filler in the ratio 2.3 parts filler to 1 part resin (by weight) into the catalysed resin and thoroughly mixing with a slow speed mixer until the mixture achieves a smooth, uniform consistency and colour;
- Use the mixed material within the pot life.

Temperature	0°C - 5°C	5°C - 15°C	15°C - 35°C
Catalyst %	6%	4%	2%
Catalyst per 10.00kg of resin	0.60kg	0.40kg	0.20kg

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### Application

The Caltech QC Balcofloor base components are thoroughly mixed using a slow speed agitator fitted with a suitable mixing paddle. The required quantity of catalyst is added, and stirring is continued until the mixture is lump-free, and in any event for at least two minutes. The amount of catalyst required will depend on the ambient temperature, and the manufacturer's technical data sheet/product label must be consulted for the required amount.

- Thoroughly mix Caltech Balcofloor Filler, Resin & Catalyst.
- Apply an even layer by trowel or stub roller at a min. coverage rate of 4 kg/m<sup>2</sup>. Please note: rough or uneven surfaces will significantly reduce the coverage rate, make sufficient material allowances where necessary.
- Immediately (within 2 minutes of application of Caltech Balcofloor) embed a full cover of Caltech QC Quartz 0.4 – 1.2mm into the wet resin ensuring there are no wet patches of resin visible. Allow to dry for a minimum of 1 hour, sweep away excess aggregate and vacuum clean. Note: 6 kg/m<sup>2</sup> approx. applied to give an embedded consumption of approx. 5 kg/m<sup>2</sup> approx. Rainproof time: approx. 45 minutes, can be walked on. 1 hour.
- Thoroughly mix Catalyst with Caltech QC Finish, coverage rate of catalyst is to be confirmed subject to ambient temperature to which the installation is to take place.
- Apply a layer by squeegee or roller and evenly at a min. coverage rate of 0.55 kg/m<sup>2</sup>.
- Finally, using a wet but not saturated roller, finish in straight lines in accordance with the Product Data Sheet application guidelines.
- Rainproof time: approx. 30 minutes, can be walked on - 1 hour.
- Clean tools with Caltech QC Cleaner.

### Product Data

Packaging	Resin: 10kg drums. Filler: 23 kg drums Catalyst: 0.10kg bag / 1kg bag / 25kg box
Coverage	4kg/m <sup>2</sup> + quartz granule and Caltech QC finish
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.
Pot life	Approximately 15 minutes at +20°C <b>Note:</b> Pot life will be slightly increased at lower temperatures and slightly reduced at high 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.com](http://www.alumascroofing.com).

### Technical Support

Technical advice is available from Alumasc Technical Services at:

Telephone: +44 (0)1744 648400

Email: [technical@alumascroofing.com](mailto:technical@alumascroofing.com)

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