Our LiquiTEC cold liquid applied systems are based on the most advanced Poly Methyl Methacrylate (PMMA) technology.

They are simple to install, fast curing and long lasting. This makes them suitable for use on all kinds of flat roof, balcony, walkway and terrace waterproofing and surfacing applications, whether the project is new build or refurbishment.
LOCATION: Hackney

"Bauder delivered a comprehensive waterproofing solution of the highest quality; providing expert technical support throughout the project. They have successfully transformed this housing estate in terms of appearance and functionality."

Harsha Amin, Project Manager from Hackney Homes
Our LiquiTEC cold liquid applied systems are based on PMMA resin technology. This combines ease of application without using hot works, exceptionally fast cure, and durability, to provide a cold liquid applied waterproofing product second to none.

**Bauder LiquiTEC Roof System**

This polyester reinforced system is intended for both new build or refurbishment projects and can be applied to a wide variety of substrates including concrete and timber decks, as well as most existing waterproofing membranes such as asphalt, bitumen membranes, and even synthetic single ply, subject to condition and suitability. The system is covered by our guarantee.

The BBA certificate relating to this system states that under normal service conditions it will have a service life in excess of 25 years.

**Bauder LiquiTEC Balcony, Walkway and Terrace System**

This incorporates the technology of the Bauder LiquiTEC Roof System with the added benefit of a wearing course to make it suitable for use in both light and heavily trafficked areas. If an insulated system is required this will be an inverted roof construction, with a surfacing such as pavers or timber decking. The system is supported by a comprehensive guarantee.

The BBA certificate states that under normal service conditions it will have a service life in excess of 15 years.

**Key Features**

- Totally cold applied.
- Installation possible at very low temperatures.
- Withstands ponding water.
- Thick layer system.
- Exceptionally fast curing.
- Short trafficking times.
- Compatible with a wide range of substrates.
- Seamless – no joints or fixings.

**Specification Support**

 Specification downloads: [www.bauder.co.uk/technical-centre](http://www.bauder.co.uk/technical-centre)

 Telephone helpline: 0845 271 8800
ENVIRONMENTAL CREDENTIALS

Product and System Composition
All our LiquiTEC products are solvent and halogen free; and unlike many other systems, they do not contain styrene or isocyanate, which are linked to serious health risks.

Insulation within a Warm Roof Construction
The BauderPIR insulation used within the warm roof construction of a cold applied waterproofing system has extremely high thermal efficiency and is CFC and HCFC free. It has zero ODP and a Global Warming Potential of less than 5Kg CO$_2$ - Eq/Kg. As part of our PIR insulation manufacturing process, offcuts and waste are readily recycled and used in the production of hand cleansers and decking materials.

The embodied energy of our rigid polyurethane PIR insulation accounts for as little as 4% of the energy the board can save during its serviceable life. With buildings accounting for 50% of the energy consumption in Europe, the inclusion of insulation when installing new or refurbished roofs plays a significant part in reducing CO$_2$ emissions.

Environmental Product Declarations (EPD)
The Eco Platform accreditation is recognised by the BRE as valid and transferable environmental documentation towards obtaining BREEAM credits within their assessment process for BREEAM UK New Construction 2018.

Within our cold applied systems we have the following EPD certification.

- **Liquitec Products**
  EPD-DBC-20130101-IBE1-EN.
- **PU Insulation - Aluminium Facing**
  EPD-IVP-20140207-IBE1-EN.

All certificates can be downloaded from our website bauder.co.uk/technical-centre
Bauder LiquiTEC systems have been tested and approved by the BBA and carry certificate No. 14/5152.

**Fire Performance**
Our LiquiTEC Warm Roof System and LiquiBALKON system hold ENV1187 fire classification B1350 (t4) and are verified by the BBA as ‘unrestricted’ and suitable for use on any part of a roof or terrace.

An unreinforced balcony system with LiquiPAVE RF has been tested to EN ISO 11925-2 and 9239-1 and satisfied the criteria for Euroclass Bl-s1 according to EN 13501-1.

**Root Resistance for Green Roofs**
The Bauder LiquiTEC system meets FLL guidelines, which is the benchmark test for root resistance in Europe.

**Durability**
The waterproofing products are resistant to ponding water and also incorporate a polyester fleece to provide increased membrane strength, life expectancy and resistance to cracking.

**Safety Conscious Installation Technology**
The Construction, Design and Management Regulations 2015 place specific duties on designers, contractors and building owners to take fire safety into account throughout a building’s life cycle, making sure that all people on site are protected if a fire does ever occur.

By utilising the LiquiTEC Cold Applied System, this flame-free solution not only eliminates any risk of fire from hot works but also means that in refurbishment situations buildings can remain fully operational throughout, with minimal disruption.

**Bonding Superiority**
The PMMA system delivers superior adhesion between layers as well as to most deck structures or existing waterproofing that requires an overlay solution.
Our cold liquid applied roof system, LiquiTEC, is an extremely durable PMMA resin with fast curing times, completely cold applied and suitable for use on most structural substrates. The roof area can be accessed within hours of installation and it delivers a UV stable, seamless waterproof membrane of the highest quality.

The system can be configured for a cold or warm roof construction and is fully reinforced with a tough polyester fleece for increased membrane strength, life expectancy and resistance to cracking. Within the insulated solution, our self-adhesive KSD DUO elastomeric bitumen membrane is used as both an air and vapour control layer and as the carrier membrane on which the LiquiTEC products are applied.

Key Features

- Totally cold applied.
- BBA life expectancy in excess of 25 years.
- Polyester reinforced.
- >2mm dry film thickness.
- Exceptionally fast curing.
- Compatible with a wide range of substrates.
- Seamless - no joints or fixings.
- Solvent, isocyanate and halogen free.
- Fire classification B(4) and verified by the BBA as ‘unrestricted’ and suitable for use on any part of a roof.
- Root resistant.
- Single point guaranteed system.

When to Specify

Apart from the main benefit of being cold applied, LiquiTEC is particularly suited to areas where membrane systems would be impractical due to a high degree of detailing, or when access to install waterproofing is restricted. The system is appropriate for both new build or refurbishment projects onto most substrates and can be used with extensive and intensive green roofs.
LIQUITEC ROOF SYSTEM
Example System Configurations

COLD ROOF SYSTEM
Used in new build or refurbishment applications in a cold roof construction. It is compatible with most existing waterproofing products, making it suitable for use as an overlay system.

- **Bauder LiquiDEK** cold liquid applied waterproofing, fully reinforced with a tough polyester fabric. The deck is sealed using Bauder LiquiPRIME to improve adhesion.

INVERTED ROOF SYSTEM
Used in new build or refurbishment applications in an inverted roof construction. It is compatible with most existing waterproofing products, making it suitable for use as an overlay system.

- **Paving/Pebble Ballast**
- **BauderJFRI Vapour Permeable Membrane** designed to increase the thermal performance of the insulation whilst preventing fines from working their way beneath.
- **BauderJFRI** inverted insulation to achieve required U-value.
- **Bauder Filter Fleece** separation and filtration membrane.
- **Bauder LiquiDEK** cold liquid applied waterproofing, fully reinforced with a tough polyester fabric. The deck is sealed using Bauder LiquiPRIME to improve adhesion.

WARM ROOF SYSTEM
Used in new build or refurbishment applications in a warm roof construction and incorporates BauderPIR FA-TE insulation and self-adhesive bitumen membranes, BauderTEC KSD DUO.

- **Bauder LiquiDEK** cold liquid applied waterproofing, fully reinforced with a tough polyester fabric.
- **BauderTEC KSD DUO** self-adhesive elastomeric bitumen carrier membrane.
- **BauderPIR FA-TE Insulation** extremely thermally efficient, lightweight, fire resistant and zero ODP rated. The insulation is foil-faced on both sides for increased thermal efficiency. BauderROCK can be used as an alternative insulant.
- **BauderTEC KSD DUO** self-adhesive elastomeric bitumen air and vapour control layer the deck is sealed using Bauder Activator-Primer to improve adhesion.

System Variations
The standard system colour is blue grey (approx. RAL 7031), although other colours can be achieved by applying an additional finish coat.

Where required, BauderROCK insulation can be used to improve the acoustic performance of the warm roof system.

Finish Colours
- RAL 7030 Stone Grey
- RAL 7031 Blue Grey
- RAL 7043 Traffic Grey

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LIQUITEC BALCONY, WALKWAY AND
The Bauder LiquiTEC Balcony, Walkway and Terrace System was developed to provide the optimum combination of aesthetic and functional requirements; designed to be slip resistant and hard wearing they can also be used for stairs and stairwells.

Cold application and exceptionally fast cure times are a distinct advantage when carrying out work on areas continuously in use by the building’s occupants, inconvenience is kept to a minimum.

Key Features

- Suitable for new build and refurbishment.
- BBA stated life expectancy in excess of 15 years.
- Totally cold applied.
- Exceptionally rapid cure times.
- Flexible, anti-skid, thick layer system.
- Fully bonded with excellent interlayer adhesion.
- Resistant to chemicals.
- Tough and durable enough to withstand all types of balcony traffic.
- Choice of two surface finishes.
- Can be installed all year round in the majority of climatic conditions.
- Compatible with almost all substrates.
- Quick and simple to install.
- Can be overlaid or repaired as required at any time in the future.
- Fire classification Boor (t4) for Liqui BALKON warm roof system and verified by the BBA as ‘unrestricted’ and suitable for use on roof terraces over occupied areas. An unreinforced balcony system with LiquiPAVE RF has been tested to EN ISO 11925-2 and satisfied the criteria for Euroclass Bfl-S1 according to en 13501-1.
- Guaranteed system.

When to Specify

The system is suitable for application over almost all structural substrates commonly used for balcony, walkway and terrace construction and in refurbishment can be applied directly to asphalt and most other waterproofing and surfacing products typically found on existing structures. This avoids the unnecessary expense, risk and disruption of removing existing waterproofing and minimises installation time on site.
LIQUITEC BALCONY, WALKWAY AND TERRACE SYSTEM

Example System Configurations

**REINFORCED SYSTEM**

Used wherever there are occupied premises beneath. It is especially suitable for the overlay of failed or worn asphalt, helping to avoid the costs, disruption and risks associated with its removal.

- **Bauder LiquiFINISH** abrasion resistant system seal coat.
- **Bauder LiquiPAVE RF** self levelling surface layer hard wearing crystal quartz aggregate.
- **Bauder LiquiBALKON** certified reinforced waterproofing layer, fully reinforced with Bauder 110g reinforcement fleece, a tough polyester fabric. The substrate is sealed with Bauder LiquiPRIME to improve adhesion.

**UNREINFORCED SYSTEM**

Used over unoccupied premises, such as cantilevered structures. Reinforcement is still used to upstands and details, as structural movement may occur.

- **Bauder LiquiFINISH** abrasion resistant system seal coat.
- **Bauder LiquiPAVE RF** self levelling surface layer with large grain, hard wearing crystal quartz aggregate. The substrate is sealed with Bauder LiquiPRIME to improve adhesion.

**BURIED REINFORCED SYSTEM**

Paving or timber decking can be used over the reinforced waterproofing layer with the addition of a slip layer and protection layer to prevent the possibility of mechanical damage. This system should also be used when insulation is required as shown in the illustration.

- **Paving** on supports or screed, or timber decking.
- **Bauder WFRL** designed to increase the thermal performance of the insulation whilst preventing fines from working their way beneath.
- **Bauder Inverted Insulation** where it is necessary to provide an insulated solution.
- **Bauder Filter Fleece**
- **Bauder LiquiBALKON** cold liquid applied waterproofing layer, fully reinforced with Bauder 110g reinforcement fleece, a tough polyester fabric. The substrate is sealed with Bauder LiquiPRIME to improve adhesion.

A finer quartz grade is also available for projects requiring a smoother surface finish.

**Finish Colours**

The following finish colours are available as standard.

- **RAL 7030** Stone Grey
- **RAL 7031** Blue Grey
- **RAL 7043** Traffic Grey

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TERRACE SYSTEM