Revision: 16/03/2021 – V3

PRODUCT DATA SHEET

Bauder LiquiDEK

LiquiDEK is a fast curing, cold applied liquid waterproofing resin, for use on the main roof area of the LiquiTEC Roof and Roof Terrace System. It is applied by roller in two coats 'wet on wet', fully reinforced with Bauder 110g Reinforcement Fleece. The product is a PMMA based resin and requires the addition of catalyst to cure. It is solvent, isocyanate and halogen free, minimizing its environmental impact.

Intended Use

LiquiDEK is used as the main area waterproofing of the Bauder LiquiTEC Roof and Roof Terrace System. It is suitable for use in cold roof, warm roof, inverted roof and green roof applications.

The product must be mixed with Bauder Catalyst to cure. Bauder Catalyst must be ordered separately.

The cured membrane has the following characteristics:

- Cold applied liquid
- Exceptionally fast curing
- Elastomeric
- Vapour permeable
- Chemical resistant
- Mechanically resistant
- UV resistant
- Hydrolysis and alkali hydrolysis resistant
- Root resistant
- Approved for zero falls roofs
- Solvent, halogen and isocyanate free

PRODUCT INFORMATION AND TECHNICAL PERFORMANCE			
Characteristic	**Test method**	**Unit**	**Value**
Drum size	-	kg	20
Colour	-		Blue Grey RAL 7031 (approx.)
Ambient and substrate temperature	-	°C	-5 to +35
Atmospheric relative humidity	-	%	≤ 95
Dew point	-	°C	3° above dew point
Pot life*	-	minutes	15 approx.
Curing time at 20°C* Rainproof Overcoat / traffic time Able to withstand stress		minutes	 30 approx. 45 approx. 120 approx.
*Times will be slightly increased at lower temperatures and slightly reduced at higher temperatures.			
Root Resistance	BS EN 13948 : 2007 FLL		Pass

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Fire performance Bauder LiquiTEC Roof System comprising LiquiDEK applied at a rate of 3 kg/m, including Bauder 110 g reinforcement fleece on a 0.6 mm thick bitumen carrier membrane on 120 mm thick PIR Insulation board bonded to a vapour control membrane with a two-component PUR adhesive on 19 mm thick plywood primed with a synthetic rubber resin	DD CEN/TS 1187 : 2012 (test 4)/EN 13501-5 : 2010 BS 476-3 : 2004		B_{ROOF}(t4) EXT. F.AA
Reaction to Fire	13501-1		Euroclass E

CERTIFICATION AND ENVIRONMENTAL INFORMATION

BBA Certificate	14/5152
Environmental Product Declaration (EPD)	EPD-DBC-20190116-IBE1-EN
International Standards Organisation (ISO)	ISO 9001:2015 Quality Management Certificate DEKRA 80408283 ISO 14001:2015 Environmental Management Certificate DEKRA 170408038
BRE Green Guide generic product rating	Up to A+ depending on the roof construction
Root Resistance	FLL Certified: Root and rhizome resistant

HEALTH AND SAFETY

Information regarding handling, storage and disposal of this product can be found on the latest version of the product Safety Data Sheet, which should be consulted before use.

INSTALLATION GUIDANCE

Installation is to be carried out by Bauder Approved Contractors in accordance with the specification and guidelines. Please consult the Bauder Technical Department.

Substrate assessment / pre-treatment / preparation
Ensure that the substrate is clean, dry and free from dust, laitance, grease, oil and any other contamination, including surface applied curing membranes or treatments.
The substrate must be assessed, treated and prepared in accordance with the Bauder project specification.

Initial mixing / decanting
Thoroughly mix the resin in the drum with a slow speed mixer until the resin achieves a uniform consistency;
If required to decant, mix in the drum before decanting a measured weight into a suitable container.

Mixing
Measure the appropriate weight of catalyst for the weight of resin and the temperature as detailed in the table below and on the label on the back of the drum.
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. Leave for a minimum of 1 minute to allow the catalyst to fully dissolve.
Re-mix and use the mixed material within the pot life.

Temperature (Substrate/ambient)	**0ºC to +15ºC**	**+15ºC to +35ºC**
Catalyst to resin %	4%	2%
Catalyst per 20kg drum of resin	0.80kg	0.40kg

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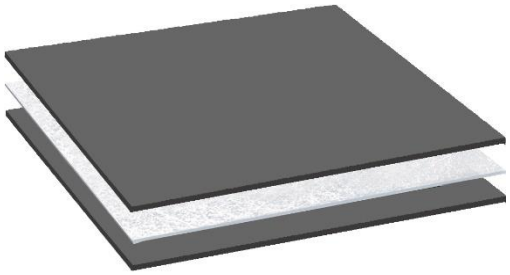
Note: Catalyst is supplied in 0.1 or 1 kg bags or 25 kg box.

Installation
Apply by roller to the substrate. For full details refer to the Bauder project specification.

Waterproofing Membrane
The system comprises a minimum 3kg/m² fully reinforced with Bauder 110g Reinforcement Fleece as follows; Apply an embedment coat of catalysed LiquiDEK as an even layer at a minimum rate of 2kg/m² with a synthetic deep pile roller. Reinforce with Bauder 110g Reinforcement Fleece rolled into the wet embedment coat, pressing trapped air free using the synthetic deep pile roller. Ensure the Bauder 110g Reinforcement Fleece is always fully saturated.

Apply a further coat of catalysed Bauder LiquiDEK at a minimum rate of 1kg/m², wet on wet.



Optional Heavy Duty Wearing Course – Maintenance Walkways
For areas where pedestrian access is required for maintenance purposes, a heavy duty wearing course can be applied as follows;
Apply a minimum 1.5 kg/m² of catalysed LiquiDEK to the designated areas and broadcast Bauder Quartz (0.7 - 1.2mm or 0.3 – 0.6mm) at approximately 7kg/m². Once cured, brush off excess quartz and dispose.
Apply a finish/seal coat of catalysed LiquiFINISH, at a minimum 0.65kg/m² or 0.6kg/m² respectively, to the heavy duty wearing course in accordance with the Installation Manual.

Note: All consumption rates are based on smooth, even, non-absorbent substrates.

Interruptions during works
Where work is interrupted for more than 12 hours or if soiled by rain etc., proceed as follows;

- For areas that are not fully aggregate filled, use Bauder PMMA Cleaner to clean and reactivate the transition area. Overlay after the Bauder PMMA Cleaner has evaporated and a minimum 20 minutes / maximum 60 minutes after application.
- For areas where the surface is aggregate filled, ensure that the surface is clean, dry and free from dust, grease, oil and any other contaminants prior to overlay but do not apply Bauder PMMA Cleaner.

Tool cleaning
Clean tools with Bauder PMMA Cleaner. Refer to the specific product data sheet.

Storage
Store unopened in a cool, dry, well ventilated place above freezing, out of direct sunlight and in the original container.

Shelf Life
When stored correctly, the shelf life is a minimum 6 months.

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