

## PRODUCT DATA SHEET

# EVERBUILD® Aquaseal® Liquid Roof

A READY TO USE, ALL WEATHER ROOFING SYSTEM

### PRODUCT DESCRIPTION

EVERBUILD® Aquaseal® Liquid Roof is a fast-curing, polyurethane based waterproofing liquid membrane for flat and pitched roofs. EVERBUILD® Aquaseal® Liquid Roof has excellent adhesion to both porous and non-porous substrates and is suitable for use on new projects, extensions or to refurbish an existing, leaky roof. The product has a moisture activated curing system that allows the product to use atmospheric moisture to trigger the curing process, which means that no catalyst is needed and the product is fast curing. With a 2 coat application to a variety of substrates this fast curing membrane cures in a range of weather conditions (see limitations) and is completely rain resistant in just 10 minutes. EVERBUILD® Aquaseal® Liquid Roof will even cure if a pool of water forms on top of it!

### USES

- Water-proofing of flat and pitched roof structures.
- Treatment of new construction and refurbishment of existing structures.
- Ideal for use on concrete, mortar, brick, stone, fibre cement, roof tiles, metals, wood and tiles. Can also be used on roofing felt, asphalt and bituminous coatings however full reinforcement must be used with these surfaces as they may soften after application. Reinforce using a suitable reinforcing fleece.
- For waterproofing underneath tiles bonded with adhesives on balconies and terraces.

### PRODUCT INFORMATION

<b>Packaging</b>	7kg and 21kg metal tins
<b>Colour</b>	Grey
<b>Shelf Life</b>	12 months from date of manufacture in unopened containers. Storage temperatures above 25°C may reduce shelf life.
<b>Storage Conditions</b>	Store upright in original packaging. Keep in a dry, well-ventilated area at 0°C to 25°C. Protect from sunlight and frost.

### CHARACTERISTICS / ADVANTAGES

- Suitable for use with both new and old roofs.
- Moisture curing technology –no catalyst required.
- Fast curing – rain resistant after 10 minutes.
- All weather product.
- Ready to use – apply with brush or roller.
- Forms a seamless membrane.
- Can be reinforced.
- Easily recoated, no stripping required.
- Provides cost effective life-cycle extension of failing roofs.
- Vapour permeable – allows substrate to breathe.
- Elastic – retains flexibility even at low temperatures.
- Compatible with common substrates: Cement, concrete, brick, stone, metals, wood, tiles etc.

<b>Tensile Load</b>	370 N reinforced
<b>Categorisation by working life</b>	W2
<b>Categorisation by climatic zones</b>	M and S
<b>Categorisation by imposed loads (hard substrate only)</b>	P4
<b>Categorisation by roof slope</b>	S1 - S4
<b>Categorisation by surface temp.</b>	Lowest: TL3. Highest: TH3.
<b>Water vapour diffusion (Sd)</b>	3.47m
<b>Resistance to wind loads</b>	>50 kPa

Density	~ 1.42 kg / litre
Solid content by weight	~ 80%
Tensile Strength	~ 4.5 N/mm <sup>2</sup> unreinforced ~8 N/mm <sup>2</sup> reinforced (EN ISO 527-3)
Elongation at Break	~ 180% unreinforced ~ 150% unreinforced, after heat aging ~ 50% reinforced (EN ISO 527-3)
External Fire Performance	Broof (t1)
Reaction to Fire	Euroclass E

## APPLICATION INFORMATION

Ambient Air Temperature	Ambient temperature must be between +5°C and +40°C and maximum 85% relative humidity. Beware of condensation as it may affect adhesion and appearance.
Substrate Temperature	Substrate temperature must be between +5°C and +60°C. Moisture content of substrate must be ≤4%.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

Ensure substrate is in good condition e.g. cracks sealed, sound joints, tiles securely fastened etc. All timbers used in roof constructions must be suitable for exterior use. Adhere to good building practices in the selection of building materials and design of roof constructions.  
Make sure any gaps are filled with an appropriate sealant before using EVERBUILD® Aquaseal® Liquid Roof.

### APPLICATION

EVERBUILD® Aquaseal® Liquid Roof can be applied using a soft bristle brush or a solvent resistant roller. If product has settled or separated on opening, stir gently in order to achieve a uniform colour. Do not overmix as this will cause air entrainment. Generally priming is not required (see limitations); for porous or irregular surfaces apply an additional priming coat of 0.25-0.3L/m<sup>2</sup>.  
Ensure all surfaces are sound, clean and free from dust and loose friable material prior to application. Protect handrails etc. with tape and/or plastic wrapping prior to application.

**Roof coatings** – At least two coats of 1 mm depth are needed. Allow for the first coat to dry before applying the second coat (6 hours at 20°C).

Ambient Conditions	Minimum Time Between Coats*
+5 °C / 50% r.h.	Allow overnight curing
+10 °C / 50% r.h.	12 hours
+20 °C / 50% r.h.	6 hours
+30 °C / 50% r.h.	4 hours

\*If time between coats is longer than 4 days, clean surface and apply reactivation primer before applying second coat.

N.B. # When using on wood; EVERBUILD® Aquaseal® Liquid Roof should be applied in conjunction with a suitable fleece, e.g. Sikalastic® Fleece 120.

### CLEANING OF TOOLS

Clean all tools and equipment with xylene immediately after use. Hardened/cured material can only be removed mechanically. Wash hands and skin with soapy water, or use Everbuild Multi Use Wonder Wipes.

### LIMITATIONS

- Do not apply on substrates with rising moisture.
- Full reinforcement must be used when applying onto asphalt, roofing felt and bituminous coatings as these surfaces may soften after application. Reinforce using a suitable reinforcing material.
- Not suitable for permanent water immersion or inverted roof structures.
- Must not be raining during application.
- Do not apply product at temperatures below 5°C.
- Test adhesion before full application, as priming may be required to some surfaces (e.g. metals, loose/friable cementitious surfaces).
- Vertical or steeply pitched surfaces may require an additional application to build adequate thickness.
- On substrates likely to exhibit outgassing, ensure substrate is thoroughly dry and apply during falling ambient and substrate temperatures. If applied during rising temperatures 'pin holing' may occur from rising vapour. In very severe cases, a suitable concrete primer may assist.
- Ensure an adequate site risk assessment has been conducted prior to starting work. Refer to safety datasheet for further guidance.
- May exhibit slight chalking at the surface – do not use run off water in live fish tanks etc.
- This product begins to react with air once opened.

Tight fitting lids may become damaged on opening. It should be planned to use all material in one use as resealing for use at a later date is not recommended. Opened and unused material may thicken and produce gas if used at a later time.

- Do not use for indoor applications.
- Do not apply this product close to the air intake of running air conditioning units. Turn off or isolate if necessary.
- Volatile bituminous materials may stain and/or soften below the coating.
- Low melting point bituminous materials may need priming.

## VALUE BASE

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

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

### EVERBUILD BUILDING PRODUCTS LTD

Site 41, Knowsthorpe Way  
Cross Green Industrial Estate  
Leeds, LS9 0SW  
Tel: 0113 240 3456  
Web: [www.everbuild.co.uk](http://www.everbuild.co.uk)  
Twitter: @everbuild

### SIKA LIMITED

Watchmead  
Welwyn Garden City  
Hertfordshire, AL7 1BQ  
Tel: 01707 394444  
Web: [www.sika.co.uk](http://www.sika.co.uk)  
Twitter: @SikaLimited

### SIKA IRELAND LIMITED

Ballymun Industrial Estate  
Ballymun  
Dublin 11, Ireland  
Tel: +353 1 862 0709  
Web: [www.sika.ie](http://www.sika.ie)  
Twitter: @SikaIreland

### Product Data Sheet

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