

## PRODUCT DATA SHEET

# Sika® Aqua Blok® PU-100

Elastomeric, moisture cured, aromatic polyurethane waterproofing membrane

### DESCRIPTION

Sika® Aqua Blok® PU-100 is a high performance, single component, elastomeric, moisture cured, aromatic polyurethane waterproofing membrane used for waterproofing shower recesses, bathrooms, laundries, decks, balconies and rooftops.

### USES

- Concrete
- Sand/cement screeds
- Cement render
- Fibrous cement sheeting
- Compressed fibrous cement sheeting
- Water resistant plasterboard
- Marine ply and level 3 treated ply

### CHARACTERISTICS / ADVANTAGES

- Fast curing
- Highly extensibility > 300%
- Internal and external applications
- One part – No mixing
- Excellent adhesion to most substrates
- Excellent crack bridging
- Good application properties

### PRODUCT INFORMATION

<b>Packaging</b>	18.9 Litre metal pails	
<b>Shelf life</b>	12 months from date of manufacture in original, sealed containers, if the storage conditions are met.	
<b>Storage conditions</b>	Store in dry, weatherproof environment, protected from direct sunlight at temperatures between +5°C and +25°C.	
<b>Colour</b>	Grey	
<b>Solid content by mass</b>	80 ± 3%	(ASTM D-2369)
<b>Solid content by volume</b>	70± 2%	(ASTM D-2697)
<b>Viscosity</b>	10,000 ± 3,000 cps (24°C)	

## TECHNICAL INFORMATION

Shore A hardness	70 ± 5 (24°C and 50% R.H)	(ASTM D-2240)
Dry film thickness	0.50mm dry film thickness per coat, minimum 2 coat application	
Tensile strength	7.0 ± 1.4 MPa (24°C and 50% R.H)	(ASTM D-412)
Tensile strain at break	400 ± 50 % (24°C and 50% R.H)	(ASTM D-412)
Tear strength	2.50 ± 0.18 MPa (24°C and 50% R.H)	(ASTM D-624)
Chemical resistance	Resistant to salts, alkaline concrete and cementitious mortars.	

## APPLICATION INFORMATION

Substrate temperature	The substrate temperature must be a minimum of 3°C above dew point during application and cure.
Substrate moisture content	Substrate moisture content should not exceed 6% by weight, determine maximum moisture content of substrate with a Tramex CME or CM Expert type concrete moisture meter.
Waiting time to overcoating	Sika® Aqua Blok® PU-100 may be recoated with another layer after the previous coat is tack free, upto a maximum interval of 48 hours after the application of the preceding coat. In case of rain or if the overcoating interval has been exceeded, the surface must be lightly abraded and wiped with Sika® Thinner C, allow to flash off prior to application of the next layer.
Drying time	Allow 16 hours between coats. Allow longer in adverse weather conditions. Allow a minimum of 72 hours prior to application of the finished covering.

## BASIS OF PRODUCT DATA

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

## FURTHER INFORMATION

- Safety Data Sheet (SDS)

## IMPORTANT CONSIDERATIONS

### LIMITATIONS

- Sika® Aqua Blok® PU-100 is not designed to stop a hydrostatic head of water pressure.
- Sika® Aqua Blok® PU-100 must not be used over damp, wet or contaminated substrates.
- Sika® Aqua Blok® PU-100 must not be applied if it is raining or if rain is imminent.
- Sika® Aqua Blok® PU-100 must not be applied directly over protective coatings.
- Sika® Aqua Blok® PU-100 must not be applied over the recommended coverage to avoid pinholes and blisters.
- Sika® Aqua Blok® PU-100 must not be used as a trafficable exposed or UV stable coating.

- Sika® Aqua Blok® PU-100 must not be applied in submerged conditions.
- Timber and particleboard flooring must be overlaid with fibrous cement sheeting prior to waterproofing.
- Do not apply where the substrate temperature is below 10°C or greater than 35°C.
- Contact Sika Technical Service for advice if further information is required.

## 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.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

All surfaces to be waterproofed must be firm, clean, dry, structurally sound and smooth. All grease, oil, wax, curing compounds, dust, loose material, laitance and other contaminants must be removed. All projections and rough spots should be dressed off to achieve a level surface. The substrate surface must be continu-

ous and not pond water.

### Sheeting

Fibrous cement sheeting, water resistant plaster-board, Marine ply and Level 3 treated ply must be fixed in accordance with the manufacturer's installation directions. All sheet joints, seams and fixings must also be filled with Sikaflex® polyurethane sealant.

### Concrete

Concrete must be allowed to cure for 28 days and cement render and sand and cement screeds must be allowed to cure for 7 days prior to the application. Surfaces must be even and smooth, imperfections repaired with a suitable Sika® MonoTop repair mortar.

### Priming

Dry porous substrates with maximum moisture content of 4% by weight may be primed using Aqua Blok® Epoxy Prime or Aqua Blok® PU Primer, work well into the substrate to ensure adequate penetration, avoid ponding. Highly porous surfaces may require a second coat. Refer individual product data sheet for further application information.

Damp, green substrates with maximum moisture content of 6% by weight must be primed with 2 coats of SikaTite® Moisture Seal, each coat must be applied at right angle to the previous coat, work well into the substrate to ensure adequate penetration and sealing. Refer individual product data sheet for further information.

### Fillet Joint

Apply a continuous bead of Sikaflex® polyurethane sealant to the wall/wall joints, the wall/floor joints, penetrations and wherever there is a change in the direction of the substrate. Tool off to form a coved fillet extending a minimum of 10mm onto adjacent surfaces. All sheet joints, seams and fixings must also be filled with Sikaflex® polyurethane sealant before the application of Sika® Aqua Blok® PU-100.

### Static Crack Treatment

For static cracks 1.5mm to 15mm, rout and clean thoroughly before filling with Sikaflex® polyurethane sealant. Apply a liberal coat of Sika® Aqua Blok® PU-100 centered over the crack, extending 100mm either side of the joint. Allow to become tack free before over coating and general application. For dynamic cracks, expansion and control joints contact Sika Technical Services for further advice.

## MIXING

Single component, ready to use undiluted, prior to application thoroughly mix using a mechanical mixer to produce a homogenous liquid. Use care to avoid air entrapment into the mixture.

## CLEANING OF EQUIPMENT

Remove liquid coating immediately with a dry cloth, clean tools and equipment with Sika® Colma Cleaner while the material is still wet. Use disposable brushes and roller sleeves. Cured coating can only be removed mechanically.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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.

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### Product Data Sheet

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