

PRODUCT DATA SHEET

Sika® Aqua Blok® WPU

FIBRE REINFORCED, ONE PART, FLEXIBLE, WATERBASED POLYURETHANE WATERPROOFING

DESCRIPTION

Aqua Blok® WPU is a premixed, single component, water-based polyurethane waterproofing membrane. Aqua Blok® WPU has High Extensibility and forms an elastomeric, seamless waterproofing membrane for use in internal and external applications for under tiled finishes including shower recesses, bathrooms, laundries, decks, balconies, podiums and rooftops. Aqua Blok® WPU has low VOC's and bonds to a wide variety of substrates. Aqua Blok® WPU contains micro fibre reinforcement for improved tensile strength and crack bridging.

USES

Concrete
Sand / cement screeds
Cement render
Fibrous cement sheeting
Structural particle board sheeting
Compressed fibrous cement sheeting
Water resistant plasterboard
Structural plywood sheeting

CHARACTERISTICS / ADVANTAGES

High Extensibility >300%
Micro fibre enhanced reinforcement
Internal and external applications
One part – No mixing, ready to use
Water based - Low VOC's, Non hazardous
Compatible with Sika® and CTA® range of tile adhesives

PRODUCT INFORMATION

Packaging	15 Litre plastic pails
Colour	Grey
Shelf life	12 months from date of manufacture in original, sealed containers, if the storage conditions are met.
Storage conditions	Store in dry, weatherproof environment, protected from direct sunlight at temperatures between +5°C and +25°C
Volatile organic compound (VOC) content	1.98g/l
Shore A Hardness	~ 78
Elongation at Break	>300%

Tensile Adhesion Strength	~ 1.3MPa
Permeability to Water Vapour	~ 2.659/g/m ² /24hr

APPLICATION INFORMATION

Consumption	FLOORS: Apply two coats to achieve a minimum dry film thickness of 0.8mm. Application coverage rate of 0.8L/m ² per coat. WALLS: Apply two coats to achieve a minimum dry film thickness of 0.6mm. Application coverage rate of 0.6L/m ² per coat. Coverage may vary depending on substrate and application method.
Curing Time	Allow a minimum of 12 hours curing prior to applying finished covering, and a minimum of 5 days to cure before flood testing. Allow longer in adverse weather conditions.
Waiting Time / Overcoating	Allow Aqua Blök® WPU 2-4 hours to dry between coats. Allow longer in adverse weather conditions.

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 continuous and not pond water. Porous dry surfaces must be primed using ECO SYSTEMS® Eco Prime WB. Highly porous and dusty substrates must be primed with Aqua Blök® Epoxy Prime 2K, damp green substrates must be primed using SikaTite® Moisture Seal 2K. Dense and impervious substrates must be primed using ECO SYSTEMS® Prep 'N' Prime.

Concrete

Allow at least 28 days for the concrete to cure. Concrete should be left with an open surface – standard wood float or broom finish. All traces of curing compounds or sealers should be removed prior to application. Old concrete must be thoroughly cleaned and washed and allowed to dry. The surface should be even unless falls are incorporated where required, imperfections to be repaired with a suitable Sika® Mono-Top repair mortar.

Sand / Cement Screeds and Renders

The screeds and / or renders must conform to the appropriate standard and should be left with a wood float finish and left to cure for at least cure for 7 days.

Building Boards

Water resistant plasterboard, fibrous cement sheeting, marine ply must be solidly fixed in accordance with the manufacturer's instructions specifically for tiling. The area must be primed with ECO SYSTEMS® Eco Prime WB, particularly where a jointing compound has been used.

Particleboard

Particleboard must be fixed in accordance with the manufacturer's instructions specifically for tiling and free from any movement. Secure floor with additional fixings and wedges, sand any surface contamination after initial preparation. The area must be primed with ECO SYSTEMS® Prep 'N' Prime.

Non Porous Substrates

It may be necessary to mechanically prepare the area. Any existing tiles must be well bonded and be free from any sealers or coatings. Dense, low absorbent and impervious surfaces must be primed with ECO SYSTEMS® Prep 'N' Prime.

Static Crack & Sheet Joint Treatment

For static cracks 0.5 – 3mm wide rout and clean thoroughly before filling with Sika® Neutral Cure silicone to form a Bond Breaker, For all sheet joints and seams clean thoroughly and fill with Sika® Neutral Cure silicone to form a Bond Breaker, apply a liberal coat of Aqua Blök® WPU extending 100mm either side of the crack and place Aqua Blök® reinforcing bandage into the wet membrane, press down firmly to ensure good contact, apply another liberal coat of Aqua Blök® WPU to the entire surface to embed the bandage. For dynamic cracks, expansion joints and control joints contact Sika® technical service for advice.

BOND BREAKER

Aqua Blök® WPU is a Class III membrane with high extensibility and is designed for use with a 12mm Bond Breaker, a bead of Sika® Neutral Cure silicone must tooled off to form a 12mm wide bond breaker. A bond breaker must be installed at areas subject to movement, wall/wall junction, wall/floor junction, sheet joints and seams, penetrations and where there is a change in the direction or substrate type.

TILING

Compatible with a range of Sika® CTA® polymer modified tile adhesives, Contact Sika Technical Service for further advice.

APPLICATION METHOD / TOOLS

Sika® Aqua Blok® WPU may be applied using a brush or roller. The surface must be continuous, Sika® Aqua Blok® WPU cannot span gaps or voids. A minimum of two coats is recommended, each coat must be applied in a perpendicular direction to the previous coat. The application must conform to Australian Standards and relevant local building codes. Ensure there are no defects or damage to the waterproofing membrane, if necessary repair and rectify by applying a third coat.

CLEANING OF EQUIPMENT

Clean tools and equipment with clean water while the material is still wet. Cured coating can only be removed mechanically.

FURTHER INFORMATION

Safety Data Sheet (SDS)

IMPORTANT CONSIDERATIONS

LIMITATIONS

- Aqua Blök® WPU is not suitable for negative hydrostatic head of water pressure.
- Aqua Blök® WPU must not be applied over damp or wet substrates
- Aqua Blök® WPU must not be applied in rain or if bad weather is imminent.
- Aqua Blök® WPU must not be applied over coatings or contaminations.
- Aqua Blök® WPU must be applied at the recommended coverage rate.
- Aqua Blök® WPU must not be used in submerged applications.
- Aqua Blök® WPU must not be used as a trafficable, exposed or UV stable coating.
- Do not apply Aqua Blök® WPU when the temperature is below 10°C or greater than 35°C.
- Do not allow Aqua Blök® WPU to freeze.
- To eliminate contamination or damage, the finished covering must be applied as soon as Aqua Blök® WPU has cured.
- Timber floors must be overlaid with suitable cement sheeting prior to waterproofing.
- Contact Sika® Technical Services for advice if further information is required

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.

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.

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.

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