



Aqua Blocker/Aqua Blocker Liquid

HYBRID UNIVERSAL SEALANT

TECHNICAL DATA SHEET

SMART PRODUCT BENEFIT

- solvent-free and bitumen-free
- extreme crack-bridging
- sets after 8 minutes
- indoor and outdoor

PRODUCT INFORMATION

Aqua Blocker's MS Polymer technology combines the reliable crack-bridging and waterproofing performance of a traditional, thick-layer bitumen-based coating with the unbeatable ease of handling and application of a bitumen emulsion. In accordance with DIN 18195, when applied at a weight of approx. 2.3 kg/m², Aqua Blocker achieves crack-bridging performance of > 5 mm with a cured coating thickness of 1.5 mm. Aqua Blocker, as a solvent-free, water-free and bitumen-free sealant, does not require a primer coat and even adheres extremely well to damp surfaces. Two coats should be applied using a short-fibre velour roller.

FIELDS OF APPLICATION

Highly flexible, MS Polymer® -based construction industry sealant for application by roller that provides long-lasting protection for below-ground building structures, such as basements, buildings without basements, foundations, floor elements, connections, pipe channels, etc against damp and ground water under hydrostatic pressure. Can also be used to fasten protective, drainage and insulating sheets.

APPLICATION

Aqua Blocker is ready-for-use and can be used directly from the packaging. Aqua Blocker should be applied in two even, continuous coats using a short-fibre velour roller. Typically, 1.15 kg of product per m² will be required for each layer. The first layer must be allowed to dry adequately (approx. 4 hours at 20° C), before the next layer is applied. The ambient temperature and the temperature of the substrate should lie between a minimum of +5° C and a maximum of +35° C. Apply Armerungsgewebe 100 (reinforcement fabric) in the first layer in areas with a high risk of cracking (wall corners, joints between walls and floors, pipe channels, etc.) and in areas where a good seal is required against



ground water under hydrostatic pressure. Aqua Blocker should not be used to seal parting lines and expansion joints. The joints must be dimensioned and constructed in accordance with the instructions provided. In accordance with DIN 18195, when applied at a weight of approx. 2.3 kg/m², Aqua Blocker achieves crack-bridging performance of > 5 mm with a cured coating thickness of 1.5 mm.

PREPARATION OF SUBSTRATE

The mineral substrate must be solid, stable and plane, without any lumps of gravel, cavities, gaping cracks or burrs. The surfaces to be coated must be free from any residues of oil, formwork oil, grease, dust, sintered layers or other separation layers. Joints in masonry surfaces must be solidly filled, edges and fillets (leg length at least 4 cm long) have to be rounded. Irregular masonry surfaces with numerous exposed parts and cavities, as well as chip-offs and defects should be filled or levelled prior to applying the Trass Mortar. Create the coves in the wall/bottom area at least 24 hours before the beginning of the sealing works using the polymer-enriched mortar for coves and repairs Barrier Mortar. Against groundwater under negative pressure, apply a two-layer surface sealing continuously from the front edge of the concrete base up to a height of 30 cm on the enclosing walls using the watertight Flex slurry K11 grey. Aqua Blocker® / Aqua Blocker® liquid can be applied directly on slightly damp substrates without needing a primer. Avoid standing water.

PROCESSING

The mineral substrate must be solid, capable of bearing loads and flat, without any visible lumps of gravel, cavities, gaping cracks or burrs. The surfaces to be coated must be free of any residue of oil, formwork lubricant, grease, dust or other release agents. Joints in brickwork surfaces must be flush, edges and grooves (at least 4 cm long) should be smoothed off. Irregular brickwork with protrusions and depressions should be levelled prior to application using Trass cement and natural stone mortar. Depressions in the wall and wall footing areas should be repaired at least 24 hours before applying the sealant using polymer-enriched Sperrmörtel (barrier mortar for depressions and repairs). When creating a negative seal against ground water under hydrostatic pressure, two continuous coats of waterproof, 2-component Flex Schlämme K11 grau sealing slurry should be applied to the front face of the concrete footing up to a height of approx. 30 cm on the exterior walls. Aqua Blocker can be applied directly to damp substrates without the need for a primer.

Repairs of small areas

For instance, small-surface repairs refer to small roofs of garden sheds, max. 1 mm wide cracks, as well as partial damages of the existing roof seals and the applications mentioned before.

The substrate has to be rigid, capable of bearing loads and free from other separating layers. After cleaning the substrates usually existing in the roof area, e.g. old rigidly laying sanded bituminized sheets/ bituminized sheets covered with slate chippings, aged PVC-sheets, concrete, and wood, can be repaired with Aqua Blocker®. To check the adhesive power on PIB-/EPDM-sheets we recommend to perform tests yourself. Remove old loosely laying sheets completely. Keep a minimum layer thickness of 2 mm after applying the Aqua Blocker® twice. Humid substrates (also due to humidity which penetrates behind) can cause bubbles.

Surface restoration of concrete substrates:

The mineral substrate must be solid, capable of stable and dry, without any lumps of gravel, cavities, gaping cracks or burrs. The surfaces to be coated must be free from any residues of oil, formwork oil, grease, dust, sintered layers or other separating layers. Chip-offs and defects should be filled or levelled prior to applying the Trass Mortar. We recommend to fill the pores of dry concrete with Bostik Renogrund PU as priming coat. The primer must be completely dry (about 8 hours at 20°C/50% relative air humidity) before Aqua Blocker® / Aqua Blocker® liquid can be applied. After priming, apply the first coat of Aqua Blocker® / Aqua Blocker® liquid within 36 hours. When the first coat can be walked on, the second coat will be applied. Keep

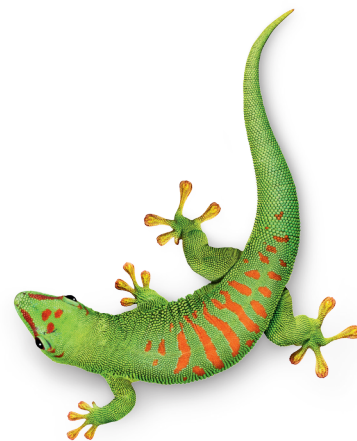
a minimum layer thickness of 2 mm. If the surfaces are larger than 25 m², embed the reinforcement fabric over the whole surface into the first layer including the upturn edges and connections. Keep a minimum layer thickness of 2.5 mm (incl. fabric).

Surface restoration of old substrates:

The substrate has to be rigid, stable and free from separating layers. After cleaning, the following substrates usually existing in the roof area, e.g. old rigidly laying bituminized sheets which are sanded or with slate chips, and aged PVC-sheets can be repaired with Aqua Blocker®. We recommend to apply Bostik Renogrund PU primer on the dry substrate. The primer must be cured (about 8 hours at 20°C/50% relative air humidity) before Aqua Blocker® / Aqua Blocker® liquid can be applied. After priming, the first layer of Aqua Blocker® / Aqua Blocker® liquid has to be applied within 36 hours. Embed the reinforcement fabric over the whole surface in the first layer including the upturn edges and connections. After the first coat can be walked on, the second coat will be applied. Keep a minimum layer thickness of 2.5 mm (incl. the fabric). Using this structure, 4 mm wide cracks can be bridged. For repairing of sanded bituminized sheets it will be necessary to apply an other thin layer of Aqua Blocker® / Aqua Blocker® liquid. This layer must completely be covered with slate chips

Reconstruction of garages/car ports:

Suitable substrates are OSB plates, tongued and grooved rough boarding and sanded bituminized sheets /bituminized sheets covered with slate chippings. The substrate has to be rigid, capable of bearing loads and free from other separating layers. We recommend to apply Bostik Renogrund PU primer on the dry substrate. The primer must be completely dry (about 8 hours at 20°C/50% relative air humidity) before Aqua Blocker® / Aqua Blocker® liquid can be applied. After priming, the first layer of Aqua Blocker® / Aqua Blocker® liquid has to be applied within 36 hours. When the first coat can be walked on, the second coat will be applied. The overlapping areas of sanded bituminized sheets/bituminized sheets covered with slate chippings should be primed to keep the minimal layer thickness of 2 mm. In case of OSB plates and tongued and grooved rough boarding, embed the reinforcement fabric into the first layer over the whole surface including the upturn edges and connections. Keep a



minimum layer thickness of 2.5 mm (incl. fabric). For repairing of sanded bituminized sheets it will be necessary to apply an other thin layer of Aqua Blocker® / Aqua Blocker® liquid. This layer must completely be covered with slate chips.

SUBSEQUENT WORK

Aqua Blocker must be allowed to dry completely (approx 24 hours at +20° C) before any subsequent work takes place. When the seal has reached its full load-bearing capacity, it must be protected in accordance with DIN 18 195 using suitable protective, drainage or insulating sheets. When doing so, single-point and linear load concentrations should be avoided. The sheets can be attached using Aqua Blocker.

NOTES

Bituminous substrates can change the colour of the Aqua Blocker®. This discolouration is not a technical defect. Humid substrates can cause bubbles within the roof area. If the minimum thickness of the layer is not kept, cracks and structural failures can occur.

Pay attention to migration, plasticizers, negative interactions, permigration between the sealed substrates and the Aqua Blocker®. Only walk on roof surfaces restored with Aqua Blocker®/ Aqua Blocker® for maintenance purposes.

TOOL CLEANING

Once dry, scrape off any residue using a trowel or similar tool.

STORAGE

Store in a cool, dry place. Do not expose to frost. Storage life of approx. 6 months in the original packing.

DELIVERY FORM

Art.-Nr. 30821418 290-ml-cartridge
 Art.-Nr. 30814436 1-kg-tin
 Art.-Nr. 30139351 14-kg- bucket

TECHNICAL SPECIFICATIONS AND DATA	
Colour	grey
Crack-bridging performance	> 5 mm
Application temperature	+5° to +35°C
Drying time between the 1st and 2nd coat	approx. 4 hours at +20°C
Fully dry after	full load-bearing capability after approx. 24 hours at +20°C
Coverage	approx 2.3 kg/m ² when applied in 2 coats approx. 0.4 kg/m ² when used to attach sheets
Application	2 coats, dry coat thickness of approx. 1.5 mm
Means of application	Short-fibre velour roller



These instructions reflect the extent of our current knowledge and are the result of extensive testing and practical experience. In view of the multiplicity of the possible applications and storage and processing factors over which we have no control, we cannot guarantee good results in each individual case. We recommend you test the product first before final application. Slight discolouration of sealants can occur under UV-radiation. Slight colour differences between the batches are possible through the production process. No liability can be accepted for absolute colour fidelity. Use material of the same charge-number for a building object. Our technical and commercial advisory service will be pleased to answer your queries.

This data sheet supersedes all previous issues.

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