




Technical Data Sheet

COMBIDIC®-1K

Art.-No. 2 05011

1 component, polymer modified bituminous coating

	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2 - 8 D-32760 Detmold 13 2 05011	
EN 15814 COMBIDIC-1K Polymer modified bituminous coating for waterproofing building components in direct contact with the ground	
Water impermeability	W2A
Crack bridging ability	CB2
Resistance to water	passed
Deformability at low temperatures	passed
Dimensional stability at high temperatures	passed
Reaction to Fire	Class E
Compressive strength	C2A
Longevity of water impermeability and reaction to fire	fulfilled

Application/substrate temperature:	+5 °C to +30 °C
Crack-bridging capacity to DIN EN 15812:	> 2 mm (CB2)
Resistance to rain to DIN EN 15816:	< 8 hours (R2)
Watertightness (Slotted disc pressure 1 mm) to DIN EN 15820:	> 0.75 bar (W2A)
Compressive strength, 0.3 MN/m ² , to DIN EN 15815PG:	C2A
Reaction to fire to DIN EN 13501-1:	Class E

- Seamless, jointless, flexible crack-bridging waterproof membrane
- One component
- Solvent free
- Simple and economical application
- Waterproofing material to DIN EN 15814
- Suitable as an adhesive for insulation, protection and drainage boards
- For interior and exterior use

Areas of application:

COMBIDIC-1K 1K is suitable for waterproofing building components in direct ground contact such as e.g. basement walls, foundations, floor slabs in accordance with the exposure conditions:

- Ground moisture and non-standing seepage water to DIN 18195 - part 4
- Standing seepage water to DIN 18195 - part 6

Technical Data:

Basis:	1 component, polymer modified bituminous coating
Density:	approx. 0.7 kg/dm ³

The figures are based on +23°C and 50% relative humidity. Site and weather conditions can extend or shorten the given data.

Material demand:

- Ground moisture, non-standing seepage water: approx. 4.0 l/m² = approx. 3 mm dry film thickness
- Standing seepage water: approx. 5.0 l/m² = approx. 4 mm dry film thickness
- Bonding protection and drainage boards: approx. 1.3 l/m²/mm thickness

Greater material consumption due to uneven substrates has not been taken into consideration.

Packaging:	14 and 28 litre containers
Storage:	Cool, dry and frost free, min. 12 months in the original unopened container. Use opened containers promptly.
Cleaning:	Rinse tools immediately with water. Dried material can only be removed with difficulty.

Substrate preparation:

The substrate must be free from frost, be load-bearing, flat, with open porosity and have a closed surface. It must be free from gravel pockets, blowholes, gaping

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cracks and ridges, free from adhesion inhibiting material e.g. dust, laitance layers and loose components. Undulations > 5 mm as well as mortar pockets, rendering grooves in brickwork or dense concrete blocks, open masonry work joints, voids, substrates with large pores or uneven masonry work are to be levelled up with ASOCRET-M30 beforehand. Corners and edges are to be rounded or, with concrete sections, to be chamfered post installation. Mechanically remove laitance at the wall/floor transition.

Wall/floor junction and internal corners:

Pre-slurry the professionally prepared substrate with AQUAFIN-1K or ASOCRET-M30 in a fluid consistency and construct a coved fillet with ASOCRET-M30 to a minimum edge height of 4 cm, whilst the slurry is still wet. To protect against moisture migration from the rear, overcoat the area above the base slab to a minimum height of 20 cm with AQUAFIN-1K and over the front face of the base slab down to a minimum of 10 cm. In the exposure condition of standing seepage water, the waterproofing layer must continue a minimum 15 cm down.

Intersection:

In the exposure condition of ground moisture and non-standing seepage water, intersections are to be provided with a mineral-based coved fillet in ASOCRET-M30 and, once dried, incorporated within the surface applied waterproof membrane. In the exposure condition water not under pressure or standing seepage water, use adhesive bonded or loose/integral flanges at intersections and incorporate within the surface applied waterproof membrane.

Splash zone / plinth area transition:

In the water splash zone, bring the waterproof membrane to a minimum of 30 cm above the ground. Once adjusted to the ground, the waterproof membrane must reach at least 15 cm above ground level. As a rule, this junction is treated with flexible waterproofing slurries,

e.g. AQUAFIN-RS300, in order to achieve a substrate with bonding abilities for e.g. building skirt renders. Overlap the bituminous coating min. 10 cm over the waterproofing slurry.

Product preparation:

In order to achieve an adequate bond to the substrate, apply a priming coat of ASOL-FE, diluted 1 : 5 with water. Alternatively a scratch coat can be carried out to prepare the substrate. Once the priming coat or scratch coat has completely dried, COMBIDIC-1K can be applied to the correctly prepared substrate. COMBIDIC-1K is applied by trowel or suitable spray equipment e.g. HighPump M8 (Peristaltic pump). For information see HTG HIGH TECH Germany GmbH, Berlin, www.hightechspray.de.

Exposure conditions to DIN 18195 – part 4:

Apply COMBIDIC-1K with a flat trowel in a minimum of 2 coats. To achieve an even thickness, ideally comb out with an appropriate sized notched trowel and then form a tight surface with the flat edge of the trowel. Always apply wet in wet. The dry film thickness must be a minimum of 3 mm.

Exposure conditions to DIN 18195 – part 6:

Apply COMBIDIC-1K with a flat trowel in a minimum of 2 coats. Incorporate ASO-reinforcing fabric into the wet first coat. Allow to dry sufficiently before applying the next coat to avoid damaging the first coat. The dry film thickness must be a minimum of 4 mm.

Assessing the waterproof membrane:

Always carry out a thickness check and document results. In exposure conditions to DIN 18195, parts 5 and 6, it is mandatory to measure and log the wet film thickness and drying. The film thickness is checked whilst wet by measuring the wet film thickness (at least 20 measurements per building project or at least 20 measurements per 100 m²). Spread the measuring

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points out diagonally. Dependent on their presence within the structure, the frequency of measurements should be increased e.g. in areas of intersections, transitions and junctions. When installing to DIN 18195, part 6 both film thicknesses are to be checked separately. Evaluation of drying as well as the dry film thickness is carried out with a destructive reference sample using the wedge cut method. The reference sample consists of the material from the project substrate (e.g. masonry work, concrete paving slab), which will be embedded in the building pit.

Drainage and protection boards:

Waterproof membranes are to be protected from weathering and mechanical damage using suitable protective measures or layers in accordance with DIN 18195, part 10. Protective layers may not exert any point or linear loading on the waterproof membrane. Dimpled sheets without a protective layer or corrugated protective boards are therefore not suitable. Only place protective layers once the waterproofing coat has fully dried through. Suitable protection and drainage boards can be fixed on dabs with perimeter insulation being bonded butt jointed in a full bed of COMBIDIC-2K. Install drainage to DIN 4095.

Back-filling the building pit:

Back-filling the building pit is only carried out once the bituminous coating is fully dry and must be carried out following relevant guidelines. Place and compact the back-filling material in layers, ensuring that damage and slippage within the protective layers is prevented.

Advice:

- Protect areas not being treated with COMBIDIC-1K.
- Do not install when it is raining, where there is impending rain or where the air and substrate temperature is below +5 °C.
- Bitumen coatings cannot stand negative hydrostatic pressure. In areas where this is expected, a protective coating of AQUAFIN-1K must first be applied.
- Protect masonry work capping and open window parapets from penetrating water.
- In accordance with recognised technical regulations undertake waterproofing measures with AQUAFIN-RS300 or AQUAFIN-2K/M beneath rising walls and on the base slab.
- The minimum film thickness may never fall below the prescribed value at any point!
- The required wet film thickness may not be exceeded by 100% and may not fall below the required minimum at any point.
- Protect COMBIDIC-1K from weathering e.g. rain, frost, strong sunshine etc. until fully dried out.

Please observe a current valid EU Safety Data Sheet.

GISCODE: BBP 10