


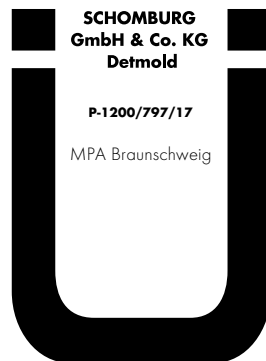
COMBIDIC®-2K-PREMIUM

Art.-No. 2 04913

Reactive 2-component bituminous thick layer coating (PMBC)

	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold 17 2 04913	
DIN EN 15814 COMBIDIC-2K-PREMIUM Polymer modified bituminous coating for waterproofing building elements in contact with the ground	
Water impermeability	W2A
Crack-bridging capacity	CB2
Resistance to water	passed
Deformability at low temperatures	passed
Dimensional stability at high temperatures	passed
Reaction to fire	Class E
Compressive strength	C2A
Hazardous substances	NPD
Longevity of water impermeability and reaction to fire	fulfilled

NPD = „No Performance Determined“



- Splash water at the wall base and capillary water in and under walls in direct ground (W4-E)

Also suitable for retrospective waterproofing of buildings in accordance with WTA data sheet 4-6.

Technical Data:

Basis:	2 component, anionic bituminous coating
Density:	approx. 1.0 kg/dm ³
Substrate / Application temperature:	+5 °C to +30 °C
Pot life:	approx. 60 minutes
Through dry:	approx. 24 hours
Crack-bridging capacity to DIN EN 15812:	> 2 mm (CB2)
Rainfast performance to DIN EN 15816:	< 4 hours (R3)
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

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

- Reactive fillers
- Seamless, jointless, crack-bridging structural waterproof membrane
- Suitable for conventional substrates in construction
- Solvent free
- Simple and economical application
- Rainfast after a short period
- Rapid through drying
- High resistance to pressure
- Waterproofing material to DIN 18533-3 / DIN EN 15814
- Suitable as an adhesive for insulation, protection and drainage boards
- For interior and exterior use
- Radon-tight

Areas of application:

COMBIDIC-2K-PREMIUM is suitable for waterproofing building components in direct ground, e.g. basement walls and floor slabs, in accordance with DIN 18533 water exposure classes:

- Ground moisture and non pressure water (W1.1-E, W1.2-E)
- Moderate exposure to pressure water (W2.1-E)
- Non pressure water on earth-covered slab surfaces (W3-E)

Material demand: see the table on page 2

Packaging: 30 kg container
 Storage: frost free, cool and dry, min. 12 months in the original unopened container. Use opened containers promptly.

Cleaning materials: Rinse tools immediately with water. Dried on material can only be removed with difficulty.

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Material consumption:

Water impact classes (DIN 18533)	Exposure WTA data sheet	Dry film thickness (mm)	Wet film thickness (mm)	Order quantity (kg/m ²)
W1.1-E, W1.2-E Ground moisture and non pressure water	DIN 18195-4 Ground moisture and non-standing seepage water	3.0	4.0	≥ 4.0
W2.1-E Moderate exposure to pressure water	DIN 18195-6 Standing seepage water and pressure water	4.0	5.0	≥ 5.0
W3-E Non pressure water on earth-covered slab surfaces	DIN 18195-5 Non pressure water, moderate exposure	4.0	5.0	≥ 5.0
W4-E* Splash water at the wall base and capillary water in and under walls in direct ground	Base sealing/wall contact area	3.0	4.0	≥ 4.0
Bonding of insulation boards		1	-	>1.3
Levelling layers		1	-	>1.3
Possible additional consumption in case of uneven substrates and artisanal variations must be considered				

* Bituminous thick layer coatings are not permitted as cross-section sealing in accordance with DIN 18533.

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 cracks, ridges and free from adhesion inhibiting material e.g. dust, laitance layers and loose components. Level up deviations > 5 mm as well as mortar pockets, render grooves in brickwork, open masonry joints, damaged areas, large pore textured substrates or uneven masonry work with ASOCRET-M30. Alternatively evening up can be carried out with scratch coats or patch repairs. Corners and edges are to be rounded or concrete sections chamfered post installation. Mechanically remove laitance present at the wall/floor transition.

Wall/floor junction, internal corners, joints:

Pre-slurry the professionally prepared substrate with AQUAFIN-1K or ASOCRET-M30 in a fluid consistency and construct a covered fillet with ASOCRET-M30 to a minimum edge height of 4 cm, whilst the slurry is

still wet. Reinforce structural movement joints with ADF-Dehnfugenband or ASO-Joint-Tape-2000-S incorporated within the surface applied waterproof membrane.

Intersection:

In the water exposure class W1.1-E or W1.2-E, intersections must be connected to the pipes or casing pipes by means of sealing grooves. Alternatively, depending on the nominal diameter, ASO sealing sleeve bottom, ASO sealing sleeve wall or ADF pipe sleeve can be used. The following waterproofing must be carried out at least 5 cm onto the pipe penetration.

In the water exposure class W2.1-E and W3-E, intersections with suitable adhesive or loose / fixed flange constructions are to be used and integrated into the waterproofing. In accordance with the specifications of DIN 18533, an increased dry film thickness of 5 mm must be applied in the area of the flange constructions. The use

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of spacers must ensure that the layer thickness does not fall below 4 mm after the loose flange has been clamped.

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. Once the priming coat has completely dried, COMBIDIC-2K-PREMIUM can be applied to the correctly prepared substrate. Where the substrate is very absorbent concrete, a scratch coat is recommended to prevent air bubble formation in the bituminous coating. In the area of the sole plate, the waterproofing must be run at least 10 cm down the end face of the sill. In water exposure class W2.1, the waterproofing must be run down at least 15 cm.

To mix the bituminous coating use a drill mixer (500–700 rpm) with a suitable mixing paddle. Firstly briefly stir the bitumen component and then add all the powder to the bitumen component. Mix the whole mass until homogenous and free from lumps. The mixing time is approx 3 minutes.

COMBIDIC-2K-PREMIUM is applied by trowel or suitable spray equipment e.g. HighPump M8 (Peristaltic pump), HighPump Small or High-Pump Pictor (screw feed pump). For information see HTG HIGH TECH Germany GmbH, Berlin, www.hightechspray.de.

Wasserbeanspruchungsklasse W 1.1-E und W 1.2-E:

Apply COMBIDIC-2K-PREMIUM with a flat trowel in a minimum of 2 coats. Here the first coat can be a full coverage blinding layer as a scratch coat. 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.

Wasserbeanspruchungsklasse W 2.1-E und W3-E:

Apply COMBIDIC-2K-PREMIUM 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 water exposure class W 2.1-E, the wet film thickness and drying must be carried out and logged. The layer thickness check is carried out in the fresh state by measuring the wet film thickness (at least 20 measurements per building project or at least 20 measurements per 100 m). The distribution of the measuring points should be diagonal. Depending on the circumstances on the building site, the measuring point density must be increased, e.g. in the area of intersections, transitions and connections. For versions with ASO reinforcing fabric, both layer thicknesses must be checked separately.

The check of drying and dry film thickness is carried out destructively on a reference sample using the wedge cut method. The reference sample consists of the substrate present at the project (e.g. brick, concrete paving slab), which is 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 18533. Protective layers may not exert any point or linear loading on the waterproof membrane.

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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. Protection and drainage boards can be fixed on heaps with COMBIDIC-1K and perimeter insulation must be bonded covering the whole area and butt jointed with COMBIDIC-2K-PREMIUM or COMBIDIC-2K-CLASSIC. Drainage must be carried out in accordance with 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-2K-PREMIUM.
- Do not install when it is raining, where there is impending rain or where the air and substrate temperature is below +5 °C.
- Negative water pressure cannot be accommodated by bituminous waterproof membranes.
In areas where this is expected, waterproof beforehand with AQUAFIN-1K.
- Protect masonry work coping and open window sills from water penetration.
- Do not drop below the relevant minimum film thickness stipulated by the exposure condition prevailing at any point at the time of acceptance.
- The required wet film thickness may not exceed the stipulated value by more than 100% at any point.
- Until it is completely dried out, protect COMBIDIC-2K-PREMIUM from weathering e.g. rain, frost, strong sunlight etc.
- The current relevant guidelines and applicable regulations are to be observed!

Please refer to a current EU safety data sheet!

GISCODE: BBP10 (A-Komp.)
ZP1 (B-Komp.)