

# COMBIDIC®-2K-PREMIUM

## Reactive 2 component bituminous coating

Art.-No. 2 04913

<b>CE</b>	
<b>SCHOMBURG GmbH &amp; Co. KG</b> Aquafinstraße 2 - 8 D-32760 Detmold 17 2 04913	
DIN EN 15814 <b>COMBIDIC-2K-PREMIUM</b> 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

- 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 18195-2 / DIN EN 15814
- Suitable as an adhesive for insulation, protection and drainage boards
- For interior and exterior use

### Areas of application:

COMBIDIC-2K-PREMIUM is suitable for waterproofing building components in direct ground contact such as e.g. basement walls, foundations, floor slabs in accordance with the exposure levels:

- Ground moisture and non-standing seepage water to DIN 18195-4
- Water not under pressure, moderate exposure to DIN 18195-5
- Standing seepage water to DIN 18195-6
- Water under pressure to DIN 18195-6<sup>\*)</sup>

### Technical Data:

Basis:	2 component, anionic bituminous coating
Density:	approx. 1.0 kg/dm <sup>3</sup>
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 <sup>2</sup> , 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.

### Material demand:

- Ground moisture, non-standing seepage water: approx. 4.0 kg/m<sup>2</sup> = approx. 3 mm dry film thickness
- Water not under pressure - moderate exposure (DIN 18195-5): 4.0 kg/m<sup>2</sup> = approx. 3 mm dry film thickness
- Occasional standing seepage water / water under pressure<sup>\*)</sup> (DIN 18195-6): 5.0 kg/m<sup>2</sup> = approx. 4 mm dry film thickness
- Bonding insulation panels: approx. 1.3 kg/m<sup>2</sup>/mm thickness

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

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

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Cleaning materials: Rinse tools immediately with water.  
Dried on 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 cracks and ridges, 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 coved 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 exposure condition of ground moisture and non-standing seepage water, intersections are to be provided with a mineral-based coved fillet and, once fully dried, incorporated within the surface applied waterproof membrane. In the exposure condition standing seepage water not under pressure/water under pressure 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. 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. Bring the waterproof membrane down the front face of the base slab at least 10 cm. Where the exposure condition is standing seepage water/water under pressure, the waterproof membrane must be taken down to 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](http://www.hightechspray.de).

## **Exposure conditions to DIN 18195 – part 4:**

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

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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.

## **Exposure conditions to DIN 18195 – part 5 (moderate exposure):**

Apply COMBIDIC-2K-PREMIUM with a flat trowel in a minimum of 2 coats. Incorporate ASO-reinforcing fabric into the wet first coat of the waterproof membrane at coves and edges. Allow to dry sufficiently before applying the next coat to avoid damaging the first coat. The dry film thickness must be a minimum of 3 mm.

## **Exposure conditions to DIN 18195 – part 6:**

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 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 m<sup>2</sup>). Spread the measuring 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. Protection and drainage boards can be fixed on dabs with perimeter insulation being bonded butt jointed in a full bed of COMBIDIC-2K-PREMIUM or COMBIDIC-2K-CLASSIC. 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-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.
- Undertake waterproofing measures beneath rising walls and on the base slab appropriate to technical regulations with AQUAFIN-RS300 or AQUAFIN-2K/M.
- Do not drop below the relevant minimum film thickness stipulated by the exposure condition prevailing at any point at the time of acceptance.

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- 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.

\*1) Bituminous coatings may only be used for applications in accordance with DIN 18195, which have been approved in the relevant section of the standard. At this time, applications according to DIN 18195, part 6, - water under pressure - is not permitted. Therefore such applications are to be contractually agreed between client and applicator and, in accordance with VOB part C, DIN 18336, clearly and separately entered into the technical specification. Please refer to the information in the "Guidelines for planning and implementation of waterproofing measures with polymer modified bituminous coatings", Deutsche Bauchemie e.V.

Please refer to a current EU safety data sheet!

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