




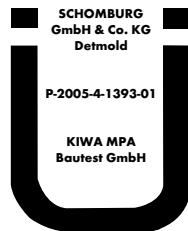
## Technical Data Sheet

# COMBIFLEX®-C2/P

Art.-No. 2 05025

## Two component polymer modified bituminous coating

	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2 - 8 · D-32760 Detmold 13 2 05025	
EN 15814 <b>COMBIFLEX-C2/P</b> Polymer modified bituminous coating for waterproofing building elements in 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



- Cationic
- Seamless, jointless, flexible crack bridging waterproof membrane
- Quickly rainfast
- Cross links through chemical reaction
- For use on matt damp substrates without primer
- Suitable for all conventional building substrates
- Simple and economical application
- Can be trowel applied
- Radon barrier
- Waterproofing material to  
DIN 18195 - part 2/ DIN EN 15814

### Areas of application:

COMBIFLEX-C2/P is suitable for waterproofing building components in direct ground contact, 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
- Water not under pressure, moderate exposure to  
DIN 18195 - part 5
- Standing seepage water
- Pressure water according to DIN 18195-6 \*\*

### Technical Data:

Basis: 2 component, cationic bituminous coating

Application/  
surface temperature: +5 °C to +30 °C

Mixing time: approx. 1 - 2 minutes

Pot life: approx. 60 minutes

Through drying: approx. 48 hours

Crack-bridging capacity  
to DIN EN 15812: > 2 mm (CB2)

Resistance to rain  
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/Dry film thickness:

- Ground moisture, non-standing seepage water:  
(DIN 18195-4): 5.3 kg/m<sup>2</sup> = approx. 3 mm  
dry film thickness
- Non pressure water - moderate exposure  
(DIN 18195-5): 5.3 kg/m<sup>2</sup> = approx. 3 mm  
dry film thickness
- Standing seepage water/pressure water \*\*  
(DIN 18195-6): 7.0 kg/m<sup>2</sup> = approx. 4 mm  
dry film thickness

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

Packaging: 25 kg combination pack  
Storage: frost-free, 6 month when stored in the original unopened packaging. Use opened packagings promptly.

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# COMBIFLEX®-C2/P

**Cleaning:** Clean tools immediately with water or ASO-R001. 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. 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:**

Thoroughly stir component A of COMBIFLEX-C2/P with a slowly rotating drill and paddle (approx. 500–700 rpm). Then add all of component A to the powder component and mix intensively until a homogenous, lump free mass is achieved. Mixing of part quantities is not possible.

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

Apply COMBIFLEX-C2/P 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.

Lay the ASO-System-Fleece-02 onto the fresh COMBIFLEX-C2/P waterproofing layer without overlaps and using a smooth trowel or roofers brush, smooth flat. It is standard practice to use the ASO-System-Fleece-02 with concrete constructions.

## **Exposure conditions to DIN 18195 – part 5:**

Apply COMBIFLEX-C2/P 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

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# COMBIFLEX®-C2/P

next coat to avoid damaging the first coat. The dry film thickness must be a minimum of 3 mm. Lay the ASO-System-Fleece-02 onto the fresh COMBIFLEX-C2/P waterproofing layer without overlaps and using a smooth trowel or roofers brush, smooth flat.

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

Apply COMBIFLEX-C2/P with a flat trowel in a minimum of 2 coats. Incorporate ASO-reinforcing fabric into the wet first coat of the waterproof membrane. 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. Lay the ASO-System-Fleece-02 onto the fresh COMBIFLEX-C2/P waterproofing layer without overlaps and using a smooth trowel or roofers brush, smooth flat.

## **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.

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# COMBIFLEX®-C2/P

## Important advice:

- Protect areas not being treated with COMBIFLEX-C2/P.
- 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.
- 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.
- In accordance with recognised technical regulations undertake waterproofing measures with AQUAFIN-RS300 or AQUAFIN-2K/M beneath rising walls and on the base slab.
- Protect COMBIFLEX-C2/P from weathering e.g. rain, frost, strong sunshine etc. until fully dried out.

\*\* 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 observe a current valid EU Safety Data Sheet.

**GISCODE: BBP 10**