



Technical Data Sheet

COMBIFLEX®-C2

Art.-No 2 05015

2-comp. bituminous thick layer waterproofing

Properties:

- Seamless, flexible crack bridging waterproofing
- Suitable for all common substrates
- Immediately rain-proof
- Rapid curing
- Building pit can be closed after 24 hours under normal conditions
- Environmentally friendly
- Easy mixing of the two components
- Easy and economical application
- Trowel, roller or spray application
- Bonds without use of a primer on dry or matt damp substrates
- Protection layer against Radon

Areas of application:

Exterior waterproofing against:

- ground moisture
- humidity
- pressure water (with suitable construction)

Typical Properties:

Basis:	2-comp., polymer-modified high build bitumen
Substrate/Application temperature:	min. approx. +5 °C to max. approx. +35 °C. Lower temperatures extend, higher temperatures reduce curing times.
Substrates:	bricks, concrete, plaster, polystyrene
Surface condition:	sound, free from joints, dry or strongly wet, free from oil, fat, grease or dust, loadable
Mixing time:	approx. 1 - 2 minutes
Pot life:	60 minutes

Technical Properties:

Crack bridging:	> 60 mm (ASTM C 836:95)
Tensile strength:	1 N/mm ² (ASTM D 412-98a)
Tensile elongation:	169% (ASTM D 412-98a)
Rapid chloride permeability:	66% reduction (ASTM-C 1202.97)
Water permeability:	up to 7 bars (DIN 1048)

Product preparation:

1. Surface:

Before applying COMBIFLEX-C2/EL, the surface has to be prepared professionally.

Masonry: Prepare the surface flush-jointed. Level opened joints, uneven areas, pockets or holes.

Concrete, plaster: Clean the surface from parting agents. Defected areas are to be treated and levelled.

2. Internal corner, wall/floor junctions

ASO-Joint-Tape-2000 is fixed with AQUAFIN-2K/M and overcoat. Alternatively a concave moulding might be set. Prime corners such as wall-floor junctions with AQUAFIN-1K. Fresh-in-fresh, form a concave moulding with ASOCRET-RN or cement mortar MG III (mortar group) with mixture of ASOPLAST-MZ and leg length of 4 cm. After setting of AQUAFIN-1K seal the concave moulding with AQUAFIN-1K again. Apply COMBIFLEX-EL on the dried AQUAFIN-1K layer.

3. Expansion joints

ASO-Joint-Tape-2000 is fixed with AQUAFIN-2K/M and overcoat. Alternatively a concave moulding might

COMBIFLEX®-C2

be set. Prime corners such as wall-floor junctions with AQUAFIN-1K. Fresh-in-fresh, form a concave moulding with ASOCRET-RN or cement mortar MG III (mortar group) with mixture of ASOPLAST-MZ and leg length of 4 cm. After setting of AQUAFIN-1K seal the concave moulding with AQUAFIN-1K again. Apply COMBIFLEX-EL on the dried AQUAFIN-1K layer.

4. Product preparation

Add the B-component of COMBIFLEX-C2 to the A-component. The mixing is to be carried out with a slow running mixing device (300 rpm) until a homogeneous mass is achieved. Trowel apply COMBIFLEX-C2 without priming. In case hydrostatic pressure is to be expected the masonry has to be joint flush (impact joints and course joints are to be closed). The second application is to follow immediately. On the fresh COMBIFLEX-C2 waterproofing layer, apply the ASO-Systemvlies-02 protection fleece without overlapping and smoothen with a trowel or broom. Always use the ASO-Systemvlies-02 when waterproofing concrete substrates.

5. Drain and protection boards

Protect the waterproofing against direct strong sun influence by means of protection such as the INA Protection and Drain Element boards or the ASO-Systemvlies-02. Protection boards should only be installed once the waterproofing is completely dry. Apply INA Protection and Drain Element boards with COMBIDIC-1K. The protection layer can not create pressure (visual dots or lines) on the waterproofing. Therefore corrugated boards are not suitable. Drain boards are to be flat. The drainage is according to German Industrial Standard DIN4095. Closed-cell drainage boards should be applied with COMBIDIC-2K.

Estimating & Supply:

Packaging: Available in 14 l, 28 l and 180 l units

Consumption/Thickness of Layer:

On Masonry:

Ground moisture,	
slope water:	3.2 l/m ² /2.0 mm
Non pressure water:	4 l/m ² /2.5 mm
Pressure water:	6.3 l/m ² /4.0 mm

On concrete:

Ground moisture,	
slope water:	2.4 l/m ² /1.5 mm
Non pressure water:	3.2 l/m ² /2.0 mm
Pressure water:	4 l/m ² /2.5 mm

*Consumption may increase on uneven substrates

Cleaning & Equipment Maintenance:

Unhardened COMBIFLEX-C2 can be removed from tools and equipment with water or ASO-Kaltreiniger. Once cured, material is difficult to remove.

Storage & Shelf Life:

9 months when stored dry and frost free.

Important advice:

- Bituminous coatings do not resist negative water pressure. In case negative water pressure is to be expected the surface has to be sealed with AQUAFIN-1K in advance.
- According to the general rules of technique, a sealing with AQUAFIN-2K has to be applied under the rising walls, on the bottom and open spandrel wall. For details of piping through walls, please regard our technical descriptions.
- Protect COMBIFLEX-C2 against direct sun influence.
- The building pit has to be refilled according to VOB.
- To increase pot life/working time at higher temperature store material in a cool environment above +5° C and only expose to warm temperature shortly before mixing. Additionally use of cold water can also increase pot life/working time, if water addition is necessary.