

Method Statement

AQUAFIN®-CJ3

Bentonite waterstop with patent

Scope

This method statement covers bentonite waterstops construction joints.

Part 1 – General

This section covers materials, labour, tools and equipment for installation and application of bentonite waterstops.

1.1 Standards

1.2 Submittal

- A. Submit two copies of Technical Data Sheet containing all the instructions for use and installation (TDS) and Material Safety Data Sheet (MSDS).
- B. Submit a list of SCHOMBURG GmbH & Co. KG or your local SCHOMBURG/AQUAFIN approved applicators (Please ask for an applicator list).

1.3 Quality Assurance

- A. Manufacturer Qualifications
The manufacturer shall certify that the specified product is valid and suitable for use and application as mentioned in the TDS.
- B. Applicator Qualifications
Applicator shall be qualified in the field of concrete protection and repair with successful records. Applicator shall maintain qualified and certified personnel with good repute.
- C. Application and use of this product shall be in accordance with all instructions and precautions stated in the Technical Data Sheet. The MSDS and local regulations should be followed during handling, storage, applications and waste disposal.

1.4 Delivery, Storage and Handling

- A. All materials shall be delivered in unopened and original containers and fully identified with brand, type, grade, class, batch numbers and all other

qualifying information.

- B. All the delivered materials shall be stored in its original packaging and elevated from the ground on pallets or shelves (avoid direct contact with the floor) according to the valid TDS.
- C. All the necessary precautions shall be taken to keep the product clean, dry and free from damage.
- D. Shelf life is 5 years when stored according to the above conditions and cool conditions above +5 °C.

1.5 Job Conditions

- A. Environmental conditions: the material shall be protected from rain.

Part 2 – Product

2.1 Manufacturer

AQUAFIN-CJ3 as manufactured by SCHOMBURG GmbH and Co. KG conforms to all requirements of this method statement.

2.2 Materials

- A. Sodium bentonite embedded in a matrix of high molecular weight poly-isobutylene rubber as well as special filters and additives

2.3 Performance Criteria

AQUAFIN-CJ3 has the following properties:

Basis:	bentonite
Format:	square-edged and flexible
Colour:	black / grey
Density:	730 g / m
Thickness:	18 mm
Width:	24 mm
Swelling capacity (demin. Water):	approx. ≥ 500% after 8 days

AQUAFIN®-CJ3

Water-impermeability after installation (0.25mm joint):	2 bar
Toxicity:	none
Packaging:	rolls of 5 linear meters; 4 rolls to a box

Part 3 – Execution

3.1 General

AQUAFIN-CJ3 is used as a construction joint waterstop in concrete construction.

3.2 Application:

Substrate preparation:

The substrate must be load-bearing, mostly flat and have a closed surface texture. It must be free from gravel pockets, cavities, gaping cracks, dust and be free from adhesion inhibiting substances. Laitance layers are to be removed, mechanically abraded (sand blasted) as necessary. During the application of AQUAFIN-CJ3 the substrate may be matt damp. The formation of puddles is not permitted.

Product application:

It is essential that there is at least > 8 cm coverage of concrete from the side exposed to water. Bond AQUAFIN-CJ3 with a mounting adhesive suitable for waterstops – e.g. AQUAFIN-CA.

Completely cover the prepared substrate with the mounting adhesive and press the AQUAFIN-CJ3 into the adhesive until it oozes out from beneath. Do not begin the concreting process for at least 8 hours after bonding. Alternatively, AQUAFIN-CJ3 can also be fastened with steel nails (min. 5 nails/m). When doing so, it is necessary to ensure substrate contact pressure covering the whole area. Avoid looping or hollow layers. Waterstop connections can be made by overlapping by

5 cm or by butt jointing. The waterstops must be placed tightly together to prevent gaps. Butt jointed waterstops must be covered by a separate section of waterstop with a 3 cm overlap to both sections.

Notes:

- It is essential to store the waterstop dry.
- Waterstops must lie flat and planar on the concrete. There must be no contaminants beneath the waterstop.
- Protect the waterstop from moisture until the concrete is poured.
- Before commencing the concreting process visually inspect the waterstop. Heavily swollen waterstop tape is unsuitable and must be removed.
- Waterstops are not suitable for movement joints.
- Follow current relevant regulations and data sheets.