

AQUAFIN[®]-CJ6

Thermoplastic expansive waterstop for waterproofing construction joints

Properties:

- Simple application
- Rapid and strong expansion
- Self-injecting function into cracks and voids
- Completely dimensionally stable even at high temperatures
- Swelling process inexhaustible, often reversible
- Suitable for fresh water and sea water applications

Areas of application:

Aquafin-CJ6 is used for waterproofing the inner side of concrete construction joints in accordance with Building Regulations list A, part 2, serial number .53, where there is constant or intermittent exposure to ground water, run-off water and/or surface water.

Aquafin-CJ6 is suitable for riparian zones. Construction joints can be sealed watertight to a depth of 8 m.

Aquafin-CJ6 is suitable for application class A, exposure levels 1 and 2 in accordance with the waterproofing guidelines of the German reinforced concrete commission (*1)

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 free from adhesion inhibiting substances. Laitance layers are to be removed, mechanically abraded (sand blasted) as necessary. During the application of **Aquafin-CJ6** the substrate may be matt damp. The formation of puddles is not permitted.

Application:

It is essential that there is at least > 8 cm coverage of concrete from the side exposed to water. Bond **Aquafin-CJ6** with a mounting adhesive suitable for waterstops. Completely cover the prepared substrate with the mounting adhesive and press the **Aquafin-CJ6** into the adhesive until it oozes out from beneath. Do not begin the concreting process for at least 8 hours after bonding.

Alternatively, **Aquafin-CJ6** can also be fastened with steel mails (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.

Technical Data:

Basis:	TPE (thermoplastic elastomer)
Format:	Waterstop profile is quadratic and flexible
Colour:	red
Density:	approx. 1.25 g/m ³
Shore-A-hardness (DIN 53505):	approx. 37
Thickness:	5 mm
Width:	20 mm
Start of swelling on water contact:	approx. 6 hours
Swelling capacity (demineralized water):	approx. 50% after 2 hrs approx. 460% after 24 hrs > 700% after 8 days
Expansive pressure:	approx. 1.06 N/mm ²
Water impermeability after installation:	
- Joint width 0.25 mm:	2 bar
- Joint width 1.0 mm:	1.5 bar
Toxicity:	none
Reaction to fire:	class E to DIN EN 13501-1
Packaging:	Rolls of 40 linear metres = 1 roll/box
Storage:	2 years when stored dry, frost free and protected against weathering in unopened original container

Advice:

- 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. Therefore e.t.

Guidelines "Water impermeable concrete structures". German reinforced concrete commission (DafStb)

Data sheet "Injection grouting hose systems and expansive inlays for construction joints", German Concrete and Construction Technology Association.

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