

Technical Datasheet ATAL AQUAFIN CJ6

Product Description

Thermoplastic expansive waterstop for waterproofing construction joints.

Advantages

Simple application,
Rapid & strong expansion
Swells in the presence of water
Swells into voids & cracks around the construction joint
Suitable for freshwater and sea water construction

Areas of application

Atal Aquafin CJ6 is used for waterproofing the inner side of concrete construction joints in accordance with Building Regulations list A, part 2, serial number 2.53, where there is constant or intermittent exposure to ground water, run-off water and/or surface water.

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

Atal 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 be free from adhesion inhibiting substances. Laitance layers are to be removed, mechanically abraded (sand blasted) as necessary. During the application of Atal Aquafin CJ6 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 Atal Aquafin CJ6 with Atal Aquafin CA mounting adhesive. Completely cover the prepared substrate with the mounting adhesive and press the Atal 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, Atal Aquafin CJ6 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.

Technical Datasheet ATAL AQUAFIN CJ6

Technical Data

Basis:	TPE (thermoplastic elastomer)
Format:	Waterstop profile is quadratic and flexible
Colour:	Red
Density: Shore-A-hardness	approx. 1.25 g/m ³
(DIN 53505):	approx. 37
Thickness:	5mm
Width: Start of swelling on	20mm
water contact:	approx. 6 hours

Swelling capacity

(demineralised water): approx. 50 % after 2 hrs approx. 460 % after 24 hrs ≥ 700 % after 8 days Expansive pressure:

Water impermeability after installation:

-Joint width 0.25mm	2 bar
-Joint width 1.0mm:	1.5 bar
Toxicity:	none
Reaction to fire:	Class E to DIM EN 13501-1
Packaging:	Rolls of 40 linear metres = 1 roll/box
Storage:	2 years when stored dry, frost free and protected against

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.g. 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.

Technical Datasheet ATAL AQUAFIN CJ6

Disclaimer

The technical information within this Technical Datasheet reflects our current knowledge of the product. It is intended only as information for users. As we do not know the envisaged application and installation conditions, it is the responsibility of the user to carefully check that the product is fit for purpose. Due to the different components at the installation site and the in-situ working conditions, Atal cannot provide any guarantee whatsoever for the result of the work. Claims arising from any legal relationship can only be recognized in the event of wilful intent or gross negligence, irrespective of the statements made here or advice provided verbally. In this case the user must prove and provide Atal in writing with all the information required to correctly assess the installation situation in good time. Subject to necessary product specifications or further developments.

Atal Technical Support

Atal offers nationwide and comprehensive technical support for all types of sites and construction projects.

Our team of CSSW qualified technical managers, technical advisors and site support operatives will be happy to help with our [free design service](#), free site visits, and free product training.

Atal is proud to support your project from the beginning stages, right up to the end.

Atal CPD Seminars

Atal CPD Seminars offer in-depth overviews of structural waterproofing, ground gas protection, building regulations, and industry standards.

Our seminars are created by our team of CSSW qualified technical managers, capable of catering to a project of your choosing, and are available for everyone eager to learn about or continue their professions in the construction industry.

Book your FREE CPD Seminar here.
<https://ataluk.com/our-services/book-a-cpd>

For any enquiries, or help with your project requiring structural waterproofing, contact us via phone or email below.
01495717202 | enquiries@ataluk.com