

PRODUCT DATA SHEET

Sika® Hydrotite CJ

Hydrophilic Strip Applied Waterstop

DESCRIPTION

Sika® Hydrotite® IS A STATE-OF-THE-ART HYDROPHILIC WATERSTOP with unmatched durability and water-sealing capacity. Comprised of NON-BENTONITE, modified chloroprene rubber, Sika® Hydrotite® expands up to EIGHT TIMES its original volume when exposed to water. This expansion creates an effective compression seal within joints of limited movement.

USES

- Water and waste water treatment facilities
- Primary structures
- Tunnels and culverts
- Dams, locks, canals, water reservoirs and aqueducts
- Pipe penetrations
- Swimming pools
- Storage tanks
- Retaining walls
- Foundations
- Slabs on grade

FEATURES

- Comprised of NON-BENTONITE, modified chloroprene rubber
- Available as a co-extruded profile to provide directional expansion (also available as a single extrusion)
- Special expansion delay coating to allow concrete cure prior to expansion
- Reliable and durable
- Simple, low cost installation
- Available in a multitude of sizes and shapes for numerous applications
- Appropriate for retro-fit as well as new construction
- Can withstand high hydrostatic pressures
- All CJ profiles NSF/ANSI 61 Approved

PRODUCT INFORMATION

Packaging	Profile	Packaging Unit Meters/Roll x Rolls/box
	CJ-0725-3K	~10m x 4
Appearance and colour	Co-extruded with Hydrophilic and Non Hydrophilic Rubber Blue (Hydrophilic Rubber) Black (Non Hydrophilic Rubber)	
Shelf life	N/A	
Storage conditions	Store in a cool, dark, dry place. Exposure to moisture prior to installation may expand the Sika® Hydrotite® prematurely. If installed in an expanded condition, the effectiveness of the seal may be severely reduced.	
Dimensions	Profile	Nominal Size mm
	CJ-0725-3K	~ 7 x 25

Shore A hardness	Hydrophilic Rubber 52+/-5 Minimum	Chloroprene Rubber 54 Minimum	(ASTM D2240)
Tensile strength	Hydrophilic Rubber 350psi Minimum	Chloroprene Rubber 1300psi Minimum	(ASTM D412)
Elongation	Hydrophilic Rubber 600% Minimum	Chloroprene Rubber 400% Minimum	(ASTM D412)
Change of volume	Hydrophilic Rubber 500% Minimum	Chloroprene Rubber N/A	

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

Sika® Hydrotite CJ type profiles should be used primarily in site formed concrete joints where limited movement is expected. Sika® Hydrotite CJ protects a joint from water migration by creating a compressive seal within the joint. Joints with excessive movement will diminish this compressive seal and compromise the seals' effectiveness. While Sika® Hydrotite CJ profiles can be wet-dry cycled many times, a constantly damp and/or wet environment is ideal.

Cracking of the concrete, caused by the expansion pressure of the profile can be avoided by maintaining a 50 mm minimum concrete coverage. Increase this coverage if lightweight or low strength concrete (< 21 N/mm² compressive strength) is used.

Once installed, adequate measures should be taken to prevent exposure to rain water, ground water, etc., before the joint is covered with concrete.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

FORMING REQUIREMENTS

Sika® Hydrotite CJ profiles are installed after the form is stripped from the first pour and before the second concrete pour is made. Therefore, splitting of the form is not required. Sika® Hydrotite CJ can be installed to the plain surface of concrete or in a formed keyway. Due to the hydrophilic nature, installation of the profile should be timed as close as possible to the second placement of concrete. This will reduce the chance for premature expansion of Sika® Hydrotite CJ due to rainwater or ground water exposure. When extended periods are expected between pours along a common joint line, install Sika® Hydrotite CJ to a point slightly

beyond the end of the first expected pour. Protect exposed length of Sika® Hydrotite CJ from moisture. In the event the exposed Sika® Hydrotite CJ exhibits expansion before the next placement of concrete, remove swelled material before splicing to a new length of Sika® Hydrotite CJ. Follow splicing instructions listed below.

SPLICING

Sika® Hydrotite CJ profiles are designed with a cellular cross section. The cellular cross section allows the profile to compress slightly when concrete is placed and rebound as the concrete shrinks during cure. The cellular cross section also acts to control the expansive force placed on the surrounding concrete.

Straight lengths of CJ profiles should be cut square with a sharp knife or good pair of shears. Apply SikaSwell® S-2 on the cut ends of Sika® Hydrotite CJ and immediately join the ends together. Proper alignment and bonding of the cut ends will prevent water entering the cells of the profile. Future hydration of the waterstop will further seal the bond area. Flat 90° corners should be spliced by miter cutting the two ends at 45° and proceeding in a manner similar to the above. When space permits, CJ-0725-3K can be bent to an inside radius of approximately 50 mm, eliminating a spliced joint. Flat "T's" and "X's" should be made by butt splicing the legs with the use of SikaSwell® S-2. Vertical 90° corners, vertical "T's" and vertical "X's" should be butted and bonded with the SikaSwell® S-2. All splices can be further enhanced by placing a bead of SikaSwell® S-2 the splice.

BONDING TO CONCRETE

Remove all dust, oil, laitance, etc., from concrete surface prior to adhering Sika® Hydrotite CJ. Depending on concrete surface conditions, one of several adhesives can be used.

Normal forming practice leaves a sufficiently smooth surface for direct bonding to the concrete by one of several methods. Sika® Hydrotite CJ profiles can alternatively be secured with SikaSwell® S-2. The adhesive should be applied to both the profile and the concrete surface and allowed to dry to a tacky condition. Once this condition is met, place the profile into position. These methods work well when concrete surfaces are smooth and dry.

Concrete surfaces left rough due to jackhammering, extensive weathering, etc., should be brought to a smooth level condition. SikaSwell® S-2, a single component swellable sealant, can be used for this purpose when the concrete surface is dry. Apply a sufficient

bead of SikaSwell® S-2 to the rough concrete to ensure that a smooth level surface will result. Sika® Hydrotite CJ should be placed in position within 4 hours of application of SikaSwell® S-2. Concrete nails may be used on vertical or overhead surfaces to hold the profile in position while the SikaSwell® S-2 cures.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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