

## PRODUCT DATA SHEET

# Sika® Hydrotite CJ

### Hydrophilic Strip Applied Waterstop

#### DESCRIPTION

Sika® Hydrotite® is a hydrophilic waterstop with unmatched durability and watersealing capacity. Comprised of swellable modified chloroprene rubber and hydrophilic swellable rubber. Sika® Hydrotite® expands 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

#### CHARACTERISTICS / ADVANTAGES

- 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
- CJ-0725-3K-ADH and CJ-1020-2K-ADH offered with an adhesive back
- 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 (150' head for most profiles)
- All CJ profiles NSF/ANSI 61 Approved

## PRODUCT INFORMATION

<b>Packaging</b>	<b>Profile</b>	<b>Packaging Unit Meters/Roll x Rolls/box (FT/Box)</b>	
	CJ-0725-3K	10m x 4 (131ft)	
	CJ-0725-3K-ADH		
	CJ-1020-2K	10m x 5 (164ft)	
	CJ-1020-2K-ADH		
	CJ-1030-4M	10m x 4 (131ft)	
	CJ-3030-M	10m x 1 (33ft)	
<b>Appearance / Colour</b>	Co-extruded with Hydrophilic and Non Hydrophilic Rubber Blue (Hydrophilic Rubber) Black (Non Hydrophilic Rubber)		
<b>Shelf Life</b>	N/A		
<b>Storage Conditions</b>	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.		
<b>Dimensions</b>	<b>Profile</b>	<b>Nominal Size mm (inches)</b>	
	CJ-0725-3K	7(.28) x 25(.98)	
	CJ-0725-3K-ADH		
	CJ-1020-2K	10(.39) x 20(.79)	
	CJ-1020-2K-ADH		
	CJ-1030-4M	10(.39) x 30(1.18)	
	CJ-3030-M	30(1.18) x 30(1.18)	
<b>Shore A Hardness</b>	<b>Hydrophilic Rubber</b>	<b>Chloroprene Rubber</b>	(ASTM D2240)
	52+/-5 Minimum	54 Minimum	
<b>Tensile Strength</b>	<b>Hydrophilic Rubber</b>	<b>Chloroprene Rubber</b>	(ASTM D412)
	350psi Minimum	1300psi Minimum	
<b>Elongation</b>	<b>Hydrophilic Rubber</b>	<b>Chloroprene Rubber</b>	(ASTM D412)
	600% Minimum	400% Minimum	
<b>Change of volume</b>	<b>Hydrophilic Rubber</b>	<b>Chloroprene Rubber</b>	
	500% Minimum	N/A	

## BASIS OF PRODUCT DATA

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

## LIMITATIONS

- Sika® Hydrotite® CJ type profiles should be used primarily in site formed concrete joints where limited movement is expected. Sika® Hydrotite® 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 2" minimum concrete coverage. Increase this coverage if lightweight or low strength concrete (<3000 PSI compressive strength) is used or when using CJ-1030-4M and CJ-3030-M profiles.

- 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

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing 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® 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® due to rainwater or ground water exposure.
- When extended periods are expected between pours along a common joint line, install Sika® Hydrotite® to a point slightly beyond the end of the first expected pour.
- Protect exposed length of Sika® Hydrotite® from moisture. In the event the exposed Sika® Hydrotite® exhibits expansion before the next placement of concrete, remove swelled material before splicing to a new length of Sika® Hydrotite®. 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. Butt joints Sika® Hydrotite® should be sealed with approved sealant (e.g. LEAKMASTER® LV-Z, SikaSwell®). 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 and CJ-1020-2K can be bent to an inside radius of approximately 2 inches, eliminating a spliced joint. Flat “T’s” and “X’s” should be made by butt splicing the legs with the use of cyanoacrylate adhesive. Vertical 90° corners, vertical “T’s” and vertical “X’s” should be butted and bonded with the approved sealant (e.g. LEAKMASTER® LV-Z, SikaSwell®).

#### **BONDING TO CONCRETE**

- Remove all dust, oil, laitance, etc., from concrete surface prior to adhering Sika® Hydrotite®. 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-1020-2K-ADH and CJ-0725-3K-ADH are profiles available with a “peel-and-stick” adhesive backing for fast and easy installation. Simply remove the release paper and press the profile firmly against the concrete in the desired location.
- Other Sika® Hydrotite® profiles can alternatively be secured with Sika® Hydrotite® adhesives (e.g. LEAKMASTER® LV-Z, SikaSwell®). 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. LEAKMASTER® LV-Z or SikaSwell®, a single component swellable sealant, can be used for this purpose when the concrete surface is dry. Apply a sufficient bead of LEAKMASTER® LV-Z to the rough concrete to ensure that a smooth level surface will result.
- Sika® Hydrotite® should be placed in position while the adhesive sealant is still fresh. Concrete nails may be used on vertical or overhead surfaces to hold the profile in position while the LEAKMASTER® LV-Z/SikaSwell® cures. The concrete nail must be sealed with LEAKMASTER® LV-Z/SikaSwell®.
- A 2-part epoxy may also be used to level rough surfaces. Sikadur® -31 CF can be used on rough, wet concrete surfaces to bond Sika® Hydrotite® profiles into position. Sika® Hydrotite® should be applied to the bed of epoxy prior to final cure, approximately 30 minutes. Again, concrete nails may be used on vertical or overhead applications while the epoxy cures.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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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