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BUILDING TRUST



PRODUCT DATA SHEET

Sika® Hydrotite CJ

Hydrophilic Strip Applied Waterstop

PRODUCT DESCRIPTION

Sika® Hydrotite® IS A STATE-OF-THE-ART HYDROPHILIC WATERSTOP with unmatched durability and watersealing 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

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 Data Sheet

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PRODUCT INFORMATION

Packaging	Profile	Packaging Unit Meters/Roll x Rolls/box (FT/Box)	
	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)	
Appearance / Color	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 (inches)	
	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)	
Shore A Hardness	Hydrophilic Rubber	Chloroprene Rubber	(ASTM D2240)
	52+/-5 Minimum	54 Minimum	
Tensile Strength	Hydrophilic Rubber	Chloroprene Rubber	(ASTM D412)
	350psi Minimum	1300psi Minimum	
Elongation	Hydrophilic Rubber	Chloroprene Rubber	(ASTM D412)
	600% Minimum	400% Minimum	
Change of volume	Hydrophilic Rubber	Chloroprene Rubber	
	500% Minimum	N/A	

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. Place several drops of a cyanoacrylate adhesive (i.e. Super Glue) on the cut

ends of Sika® Hydrotite® and immediately join the ends together. Hold in position for approximately 30-45 seconds to allow the adhesive to set. 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 cyanoacrylate adhesive. All splices can be further enhanced by placing a bead of LEAKMASTER® LV-Z at the splice.

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® Adhesive. 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, 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 within 4 hours of application of LEAKMASTER® LV-Z. Concrete nails may be used on vertical or overhead surfaces to hold the profile in position while the LEAKMASTER® LV-Z cures.

A 2-part epoxy may also be used to level rough surfaces. Sika® Greenstreak® Epoxy 7300 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.

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.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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