BUILDING TRUST

PRODUCT DATA SHEET

Sika® Hydrotite CJ

A hydrophilic rubber combination material used for sealing site formed concrete joints

DESCRIPTION

Sika® Hydrotite CJ is a hydrophilic rubber sealing used extensively throughout the construction industry to seal joints between precast concrete units, steel and other materials.
Sika® Hydrotite CJ has been developed as an effective, simple and economical sealing material for site formed contruction joints.

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

- In addition to packing effect Sika® Hydrotite CJ expands itself as it absorbs water and fills up concrete joints gaps conforming to the gap variations and thus ensuring exellent sealing.
- Sika® Hydrotite CJ has the property to absorb water, thus producing self expansion pressure which closes the water path for effective sealing.
- Sika® Hydrotite CJ is easy to handle as it is light weight and installed after removal of the form.
- Sika® Hydrotite CJ is treated with an expansion delay coating to preserve it from influence of water from freshly poured concrete and expansion taking place before curing of concrete.

PRODUCT INFORMATION

Packaging	**Profile**	**Packaging Unit Meters/Roll x Rolls/box**
	CJ-0725-3K	10m x 4
	CJ-1020-2K	10m x 5
Appearance / Colour	Co-extruded with Hydrophilc and Chloroprene Rubber Blue (Hydrophilic Rubber) Black (Chloroprene 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.	
Density	**Hydrophilic Rubber** 1.3-1.5	**Chloroprene Rubber** 1.3-1.5

Dimensions	**Profile**	**Nominal Size mm**
	CJ-0725-3K	7 x 25
	CJ-1020-2K	10 x 20
Shore A Hardness	45 Minimum	
Change of Volume	**Hydrophilic Rubber**	**Chloroprene Rubber**
	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.

IMPORTANT CONSIDERATION

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 50mm minimum concrete coverage.
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 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 Sika® Hydrotite 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 CJ 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.

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. Simply remove the release paper and press the profile firmly against the concrete in the desired location. Sika® Hydrotite CJ profiles can alternatively be secured with Sikaflex®-140 Construction 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. Sikaflex®-140 Construction can be used for this purpose when the concrete surface is dry. Apply a sufficient bead of Sikaflex®-140 Construction to the rough concrete to ensure that a smooth level surface will result. Concrete nails may be used on vertical or overhead surfaces to hold the profile in position while the Sikaflex®-140 Construction cures.

LOCAL RESTRICTIONS

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

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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