

For CONSTRUCTION JOINTS

Hydrotite CJ

(JAPAN QUALITY)

Hydrotite CJ has been developed as an effective, simple and economical sealing material for site formed construction joints based on the proven effectiveness of Hydrotite.

FEATURES

1. SUPERIOR WATER SEALING

Hydrotite CJ expands as it absorbs water and fills up concrete joint gaps, confirming to the gap variations which ensures excellent sealing.

2. EASY HANDLING AND INSTALLATION

Because Hydrotite CJ is light weight it is easy to handle and install. There is no need for wire installation, no bending or air-trapping as conventional waterstop require.

-Note-

*Hydrotite CJ is not a sealing material for expansion joints and should not be used as such.

*Keep a minimum of 100mm concrete coverage on both sides of Hydrotite CJ position.



-Note-

*Only Hydrotite CJ-series are certified. Please refer listed item here after.

*Certified for a maximum surface area to volume ratio of 0.12 sq. in. /L.

3. CONTROLLED EXPANSION DIRECTION

Composite structure achieves control on expansion direction.

4. CONTROLLED EXPANSION PRESSURE

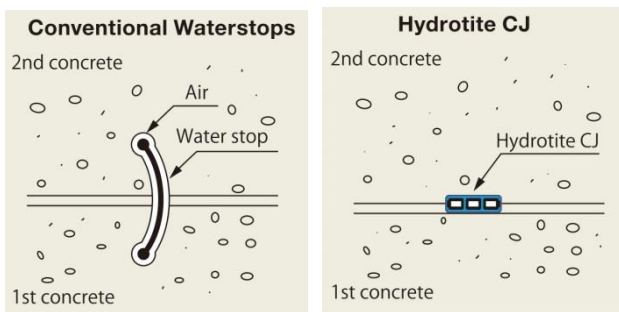
The holes of Hydrotite CJ are designed to absorb expansion pressure during the initial stage of expansion and thus avoid the concrete cracking.

5. EXPANSION DELAY COATING

The coating on Hydrotite CJ delays premature expansion by rain or ground water before installation. The delay expansion coating also allows freshly poured concrete to cure.

6. VARIOUS PRODUCT RANGE

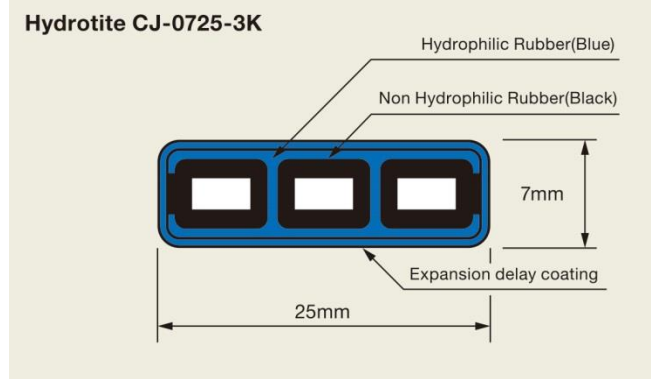
Hydrotite CJ comes in a variety of forms, such as CJ-0720-2K-EX, CJ-0725-3K-EX and CJ-1020-2K-EX. Also, self-adhesive type, CJ-AD series are available.



SPECIFICATIONS

STANDARD DIMENSION

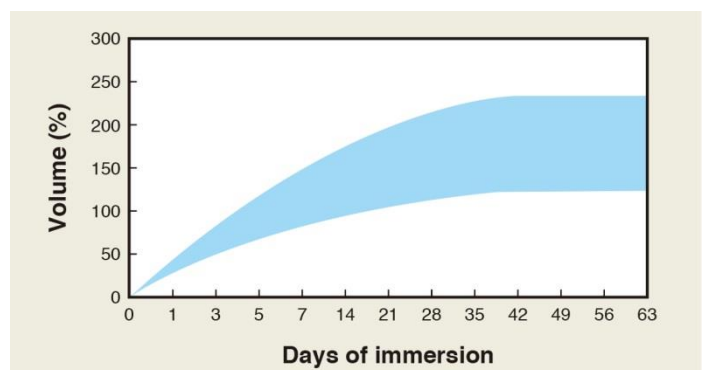
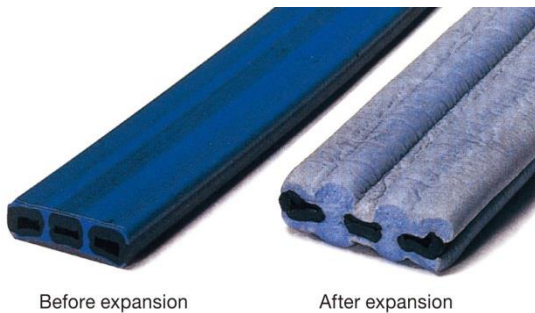
The standard dimension and shape of the most popular product CJ-0725-3K is as shown below.



BASIC PHYSICAL PROPERTIES

Item	Unit	Hydrophilic Rubber Reference	Non-hydrophilic Rubber Reference	Test Method
Hardness	(JIS, SPRING A)	50 +/- 5	50 +/- 5	JIS K 6253
Tensile strength	MPa	Min. 2.00	Min. 8.8	JIS K 6251
Elongation	%	Min. 550	Min. 400	JIS K 6251
Expansion	Vol. %	Min. 500	-	In house test

SWELLING CHARACTERISTIC



0 day immersion



1 days immersion



7 days immersion



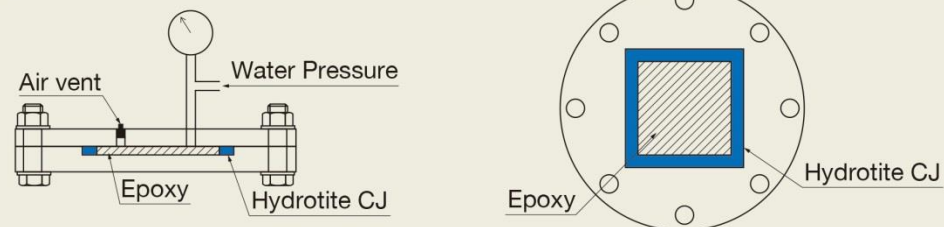
The above picture and graph are based on our experiments, and they are reference data. Hydrotite CJ starts to swell from its edge/ corners partially and continues to swell gradually overall.

WATERSEALING PROPERTY (TEST METHOD AND RESULT)

1. The test specimens are bonded to seal a steel flange.
2. The spacers put on the steel flange that the test specimens are bonded, and epoxy resin is filled between the specimens.
3. After epoxy resin is cured, the steel flange are tightened by bolts.
4. The test jig is filled with water for checking the leakage by increasing the water pressure in 0.1MPa stages, after the water pressure is kept for at least 5 minutes, up to 0.5MPa.

Water pressure	Results @GAP=0mm
0.1MPa	Good
0.2MPa	Good
0.3MPa	Good
0.4MPa	Good
0.5MPa	Good

Test equipment



AVAILABLE SIZE

CODE	DIMENSION (mm)		PACKING	REMARK
CJ-0725-3K-EX	7	25	10M / R x 4Reels/Carton	Certified to NSF/ANSI/CAN 61
CJ-0720-2K-EX	7	20	10M / R x 5Reels/Carton	
CJ-1020-2K-EX	10	20	10M / R x 5Reels/Carton	
CJ-2020-M-EX	20	20	10M / R x 3Reels/Carton	
CJ-3030-M-EX	30	30	10M / R x 1Reels/Carton	
CJ-0725-3K-AD-EX	7	25	10M / R x 4Reels/Carton	
CJ-1020-2K-AD-EX	10	20	10M / R x 5Reels/Carton	
CJ-0720-2K-AD-EX	7	20	10M / R x 4Reels/Carton	

IMPORTANT PRECAUTIONS

1. In order to avoid concrete cracking which may be caused by the expansion pressure of Hydrotite CJ, it is always required to have a minimum of 10cm concrete coverage measured from the bonded position of Hydrotite CJ to each side and it is recommended to use steel reinforcement.
2. When storing, please keep Hydrotite CJ in a cool, dark and dry space, and do not expose it to water or sunlight.
3. Use Hydrotite CJ only for site formed concrete joints in underground structures with limited gap, where constant damp and/or dry conditions are expected.
4. Before applying an adhesive, especially a solvent type rubber adhesive, to the 1st concrete layer, carefully read the instructions on ventilation, storing, etc. for each adhesive to avoid accidents such as fire, explosion, intoxication, etc..

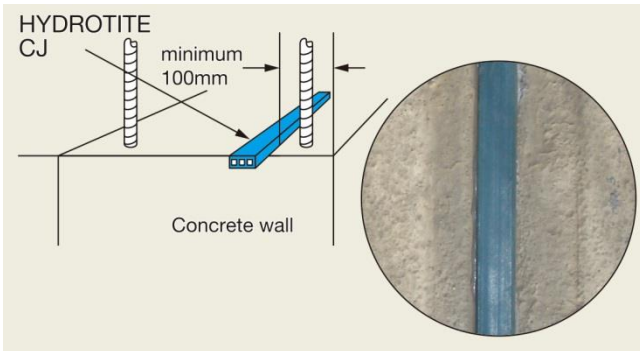
WARRANTY

All statements regarding this product are based upon procedures and tests which we believe are reliable and may be changed for improvement of quality without any notice; but it will be the sole responsibility of the customer and/or end user to use this product properly, and therefore assume all risk and liability in connection therewith. C.I.TAKIRON Corporation Warrants its products to be of good quality and will replace product proved to be defective. In no instance will C.I. TAKIRON Corporation be liable for labor costs or incidental damage associated with the use of this product, unless stated in a warranty for a specific project.

APPLICATIONS

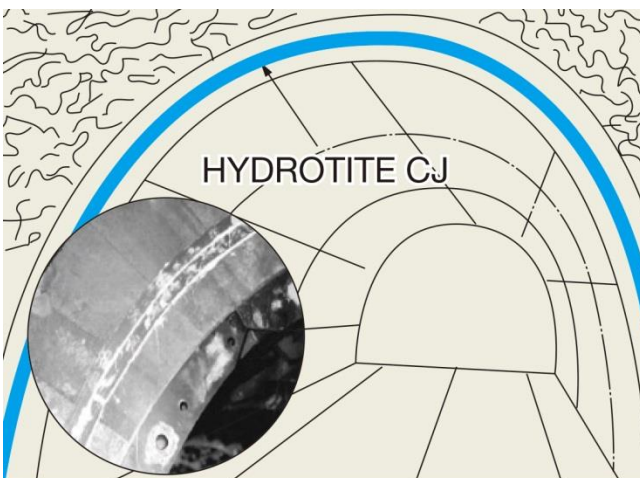
1. Wall Joints

Place HYDROTITE CJ in the center, if preferred towards either edge. However, keep always min.100mm distance from the edge.



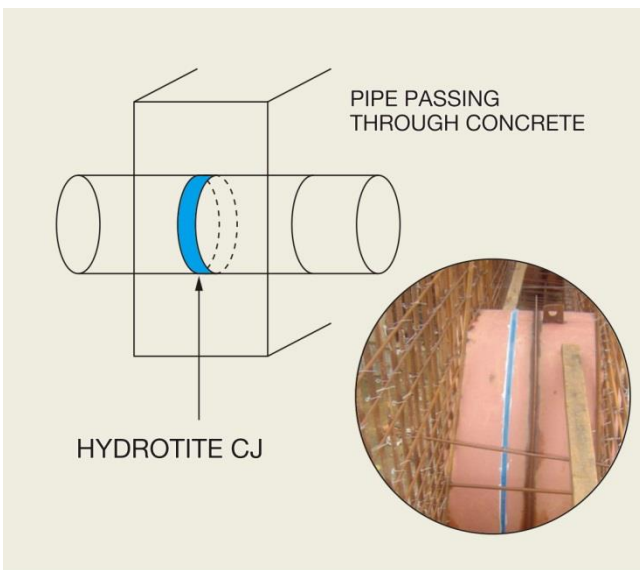
2. Joints of lining concrete for NATM Tunnel and Shield Tunnel

NATM (New Austrian Tunneling Method)



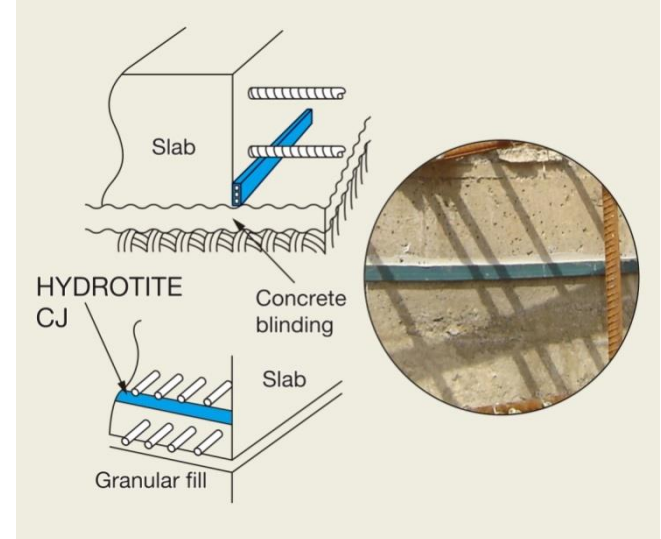
3. Pipes Passing Through Concrete

Position CJ around pipes and other fittings passing through concrete.



4. Slab Joints

Place HYDROTITE CJ in the center if preferred towards bottom edge. However, keep 50mm distance from the bottom edge.



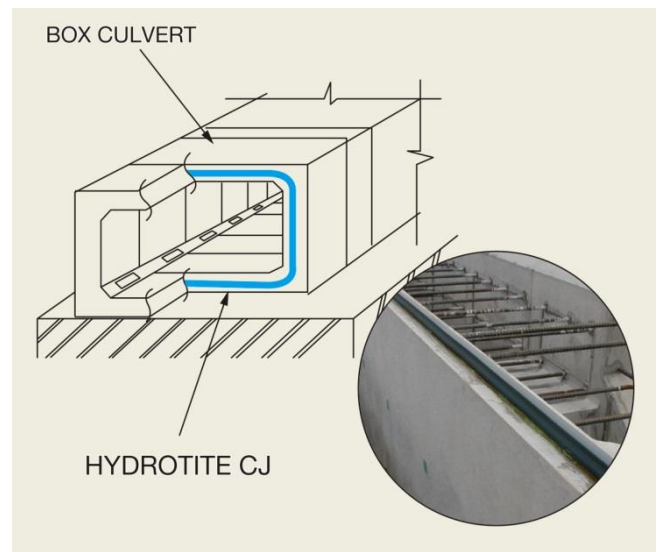
5. Precast Concrete Joints

(Box Culvert, Precast Concrete Panels)

Profile thicker than the design gap dimension should be selected from the profile list for best results.

Adhere CJ to the groove with Neoprene adhesive continuously.

Precast concrete panels should be connected with bolts each other.



C.I. TAKIRON Corporation

(Formerly known as C.I.Kasei Co., Ltd.)

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https://www.takiron-ci.co.jp/english/product/product_10/