

# For Construction Joints

# Hydrotite CJ

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

## FEATURES

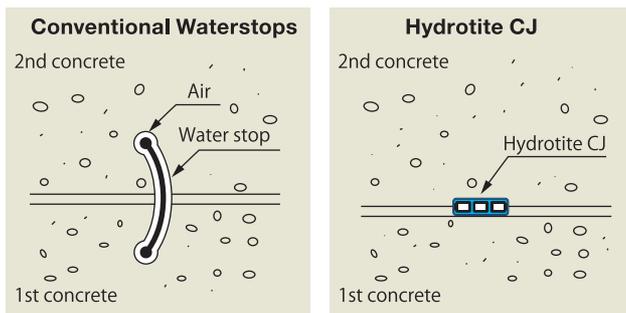
### 1. SUPERIOR WATER SEALING

In addition to the packing effect which conventional sealants have, Hydrotite CJ expands as it absorbs water and fills up concrete joint gaps, conforming to the gap variations which ensures excellent sealing.

### 2. EASY HANDLING AND INSTALLATION

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

### 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.

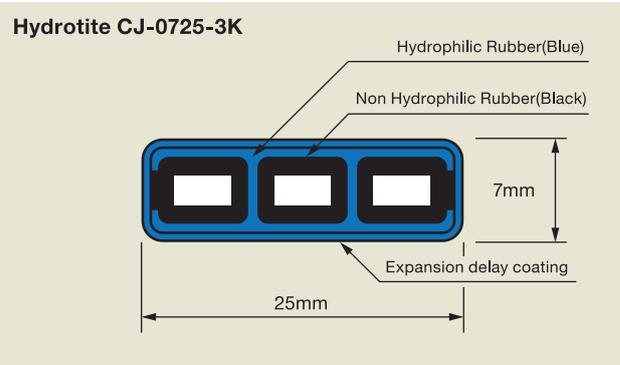
### 6. VARIOUS PRODUCT RANGE

Hydrotite CJ comes in a variety of forms, such as CJ-0720-2K, CJ-0725-3K, CJ-1020-2K and CJ-1030-4M.

## SPECIFICATIONS

### STANDARD DIMENSION

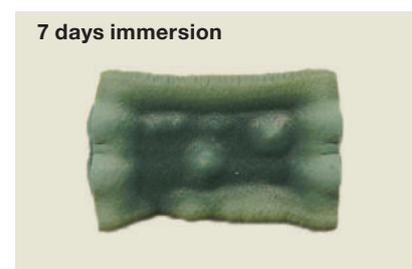
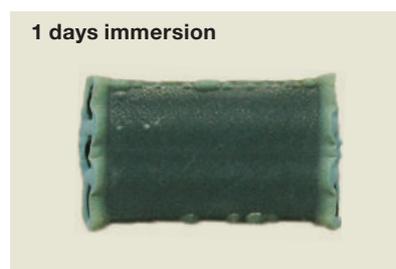
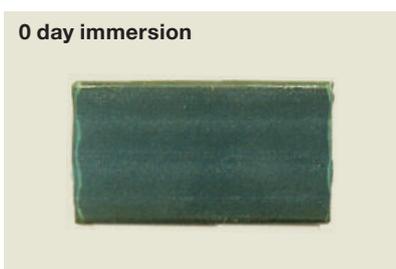
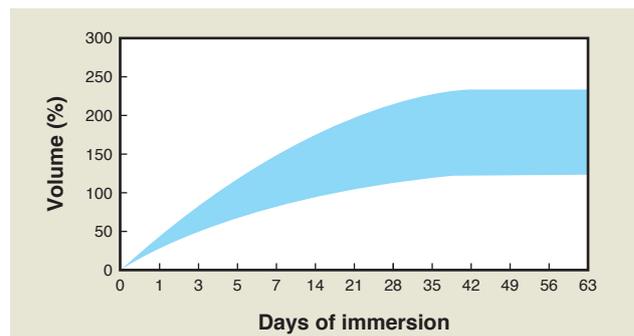
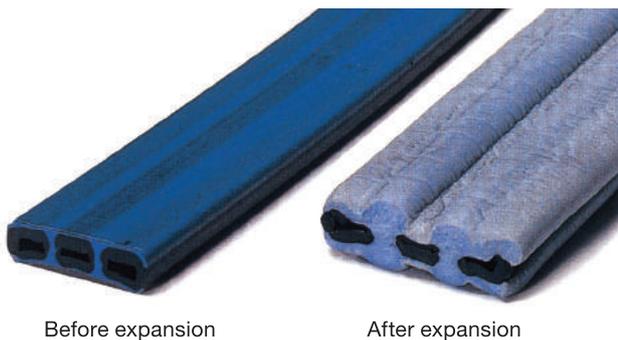
The standard dimension and shape of the most popular products CJ-0725-3K is as shown below.



### BASIC PHYSICAL PROPERTIES

Item	Unit	Hydrophilic Rubber References	Non-hydrophilic Rubber References	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 CHARACTERISTICS



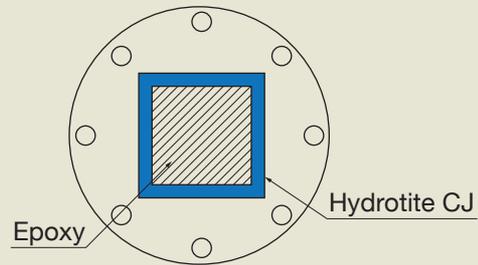
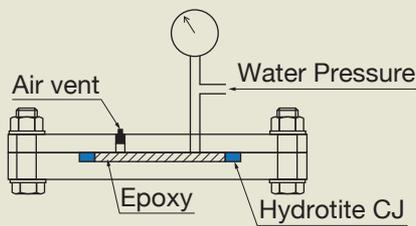
The above picture and graph are based on our experiments, and they are reference data. Hydrotite CJ starts to swell from its edge / corners partially and continues to swell gradually overall.

## WATER SEALING PROPERTY ( TEST METHOD )

1. The test specimens are bonded to a steel flange.
2. The spacer 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 flanges 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 (MPa)	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	7	25	10M / R x 4Reels / Carton	Certified to NSF / ANSI 61
CJ-0720-2K	7	20	10M / R x 5Reels / Carton	
CJ-1020-2K	10	20	10M / R x 5Reels / Carton	
CJ-1030-4M	10	30	10M / R x 4Reels / Carton	
CJ-2020-M	20	20	10M / R x 3Reels / Carton	
CJ-3030-M	30	30	10M / R x 1Reels / 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 place, 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 wet 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.

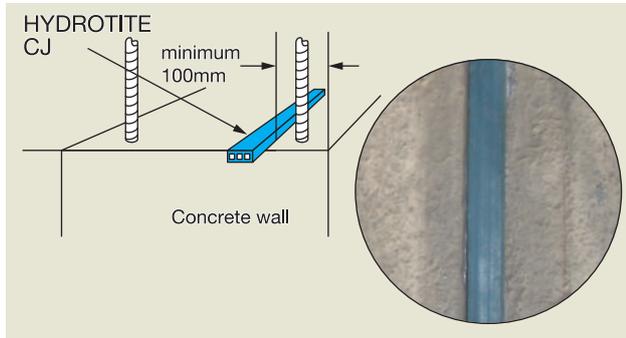
## WARRANTY

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, Corp. Warrants its products to be of good quality and will replace product proved to be defective. In no instance will C.I.TAKIRON, Corp. be liable for labor costs or incidental damage associated with the use of this product, unless stated in a warranty for a specific project.

## APPLICATION

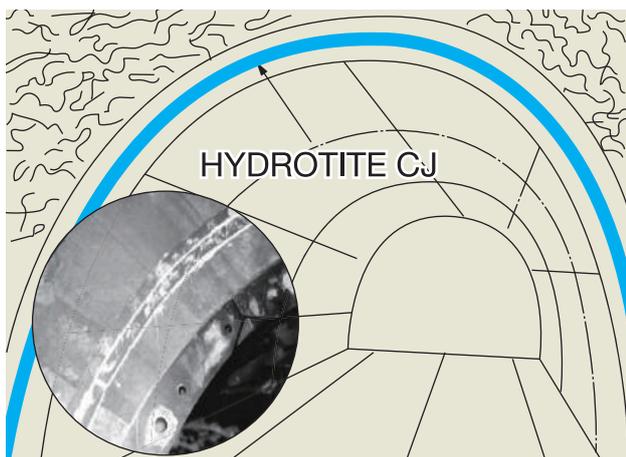
### 1. Wall joints

Position CJ centrally or towards either edge if preferred.



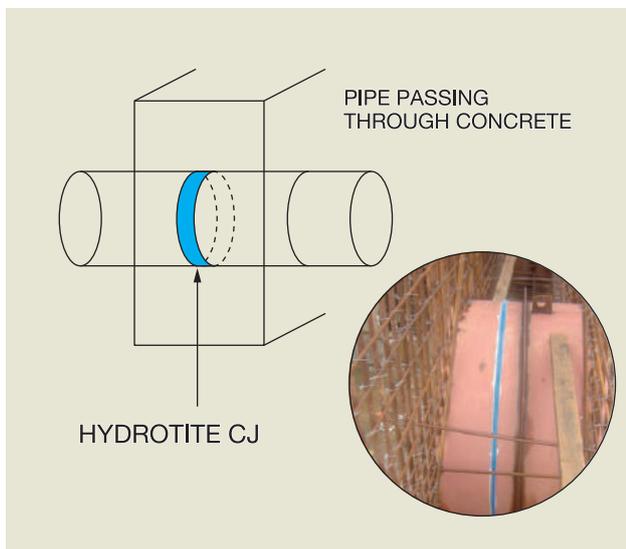
### 2. Joints of lining concrete for NATM Tunnel & Shield Tunnel

N.A.T.M. ( New Austrian Tunneling Method )



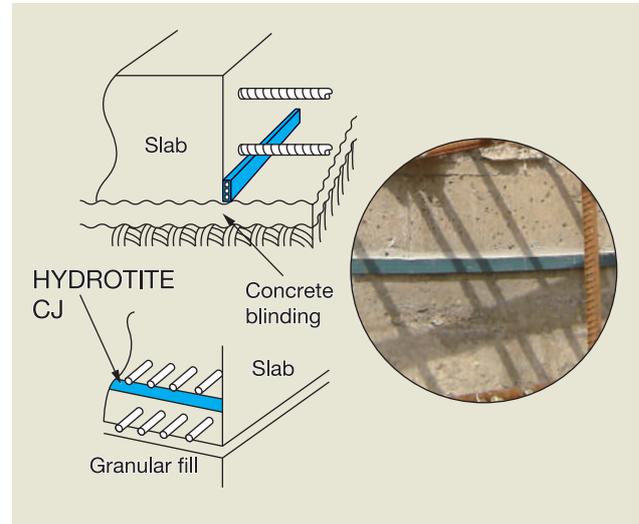
### 3. Pipes passing through concrete

Position CJ around pipes and other fittings passing through concrete.



### 4. Slab joints

Position CJ centrally or towards either edge if preferred.



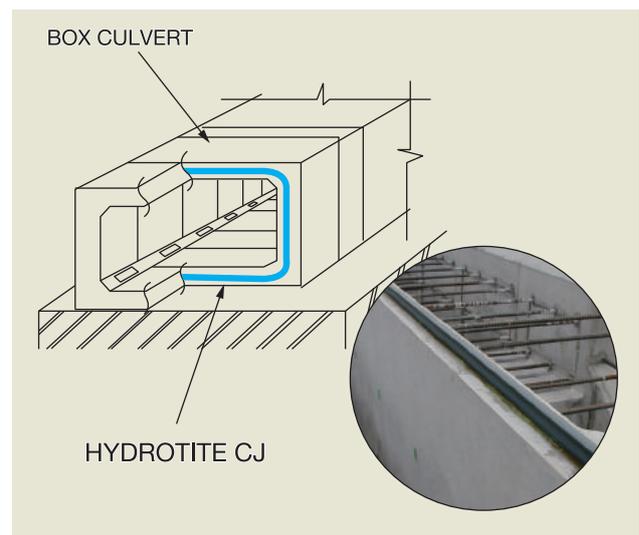
### 5. Precast concrete joints

( 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.



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