

## HYDROTITE - PREMIUM GRADE HYDROPHILIC WATER SEAL

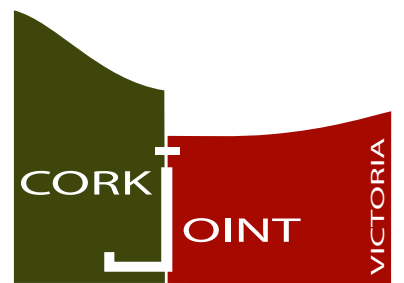
### > PROPERTIES

- Hydrotite Profiles consist of a unique combination of Expanding and Non-Expanding Neoprene Rubber co-extruded together to form a single strip. The Expanding portion is blue, the Non-Expanding portion, black. It has outstanding physical properties.
- Expansion is achieved by the use of a Hydrophilic polymer which gives it volumetric expansion of up to 8 times in the presence of moisture causing it to change colour from dark blue to light blue. This is a useful indicator as to state of the Hydrotite.
- Hydrotite works by exerting pressure on the opposing faces of concrete at the joint, hence sealing off the passage of water.
- Hydrotite is treated with an expansion delay coating to avoid pre-expansion in wet concrete or wet areas. Extra delay coating is available.
- It is approved for use in potable water situations.
- Worldwide recognition for long term reliability, particularly in situations of wet and dry cycles.

### > AREAS OF APPLICATION

- Hydrotite is ideal for use in all water retaining or excluding structures such as swimming pools, water and waste water treatment plants, dams, pipe jointing, tunnels, building basements and anywhere there is a need to achieve maximum water sealing.
- It can be used in Construction, Contraction and Expansion joints. Certain profiles designed to cope with movement joints. Discuss this with your Corkjoint Representative.
- Plugs of RSS Rods are ideal for sealing thru-tie holes in water retaining structures.
- Sealing of pipe penetrations in walls and floors using DSS-0220-AD and Leakmaster.
- Repair of leaking Construction and Expansion Joints.
- To seal joints between new cast insitu concrete to old concrete.
- To seal between pile caps and floor slabs.

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## > ADVANTAGES

- No site welding required as is for traditional PVC Waterstops.
- Cannot be distorted by concrete drops or vibrators.
- Concrete shrinkage will not distort or break Hydrotite.
- Hydrotite is very easy to handle and install, unskilled labour can carry out the work with minimum of supervision.
- It is lightweight, easy to handle and transport.
- Self-adhesive backing reduces placement time.

## > PROFILE SELECTION

- Corkjoint will advise on the most cost-effective profile for a given situation.
- The Engineer will be asked for the expected joint movement, water head and chemical composition of the water.

## > SURFACE FINISH REQUIRED

- Hydrotite must be layed onto a smooth surface.
- All air holes and any pits are to be filled.
- If the joint face is not of a metal or plywood form a smooth strip can be made using a dressed timber or a plastic strip of correct width pressed into the wet concrete.
- Small steps in the bed are to be avoided.

## > INSTALLATION

- Clean surface of any loose material.
- Join Hydrotite by clean, 90° butt joins - No overlaps.
- At inside and outside corners cut and butt. **Do not bend** around corners.
- Lay a bead of Leakmaster across joins.
- Avoid exposure of Hydrotite to moisture prior to placement and protect after placement until concrete is poured.
- Minimum cover of concrete is 50mm. Allow a 100mm tail of Hydrotite to join to next pour.
- For joining Hydrotite to create rings or intersection pieces, use a cyanacrylate type adhesive (i.e. loctite 406 / superglue).
- Where there is excess unavoidable water that cannot be diverted, it may be necessary to use concrete nails in conjunction with specially formulated CJBond.

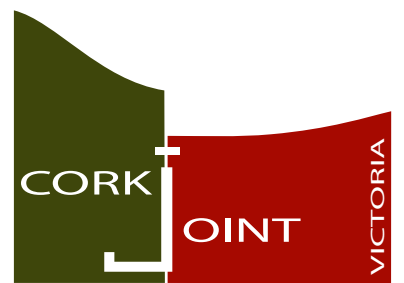
## > STORAGE

- Hydrotite should be stored in cool, dry places in original unopened packages until required.
- Any Hydrotite left over after use on site must be returned to its proper storage immediately.
- Hydrotite, if stored as recommended, has an unlimited shelf life.

## > LIMITATIONS

- Not recommended for use in suspended slabs over sensitive equipment or habitable areas. Consult Corkjoint for an alternative from its extensive range of Waterstops.

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## > TECHNICAL INFORMATION

- **WATER pH**  
The Hydrophilic Resins, and hence the expansion rates, in the Hydrotite are not effected by the pH values between the range of 3.5 to 11. Very strong acids and alkalies may reduce the expansion rates. (Please provide concentration details when critical applications occur). Petroleum based solutions require most care.
- **HOT WATER**  
Water temperatures do not affect the Hydrophilic Resins.
- **SALT WATER**  
High concentrations of salt in the water will reduce the water absorption values, and hence the expansion of the Hydrophilic Resins. Seawater will reduce the expansion by approx.30%. Hydrotite is unaffected by the natural and residual salts in concrete and grouting mixtures.

## > WATER HEAD RESISTANCE

- When properly installed in a non-movement joint, Hydrotite will resist in excess of 30-metre head of water.

## > SWELLING PROPERTIES

- The Hydrophilic portion of the Hydrotite profile will expand up to 8 times its volume. The non-expanding part of the profile is designed and used to control the direction of this expansion. This control of expansion gives a better result than for free expansion alternatives.

## > JUNCTIONS WITH PVC WATERSTOP

- Techniques are available to join Hydrotite to traditional PVC Waterstop

## > MSDS Sheets

- MSDS Sheets are available as required for Hydrotite. Hydrotite is non toxic and non-hazardous.

## > DRYING OUT

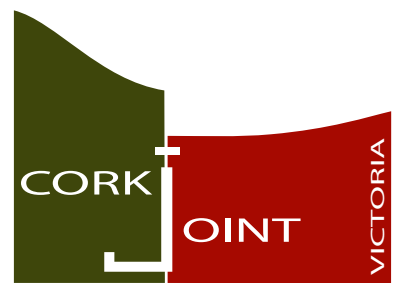
- If concrete joint totally dries out, the Hydrotite will return to its original size. On the return of water (or just moisture) to the joint, the Hydrotite will re-expand within 1 to 1.5 hours and hence a small quantity of water may by-pass the seal during this period.

Wet and dry cycling of this nature does not effect the functioning of Hydrotite.

## > SURFACE HOLES AND PITS

- Should be filled with a high quality, non-shrink repair mortar or a high quality Non Shrink grout.

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## > GUIDE TO PROFILE SELECTION

- **CONSTRUCTION JOINTS:**  
DSS0220-AD  
CJ0725-3K-AD  
CJ1020-2K-AD
  
- **CONTRACTION JOINTS:**  
CJ1020-2K-AD  
EJ2020
  
- **EXPANSION JOINTS:**  
CJ1020-2K-AD  
EJ2020
  
- **JOINT & LEAK REPAIR:**  
RSS Rods. Various sizes
  
- **FORM TIE HOLES:**  
RSS Rods. RSS2519D OR RSS2014D
  
- **PIPE PENETRATIONS:**  
DSS0220-AD  
CJ1020-2K-AD  
CJ0725-3K-AD  
Leakmaster

## > PROFILES

- The following Profiles are the most commonly used and are readily available. Other profiles are available ex-Japan and can be brought in as necessary - consult with Corkjoint for the best profile for your project.

The non-expansive portion of each profile is black and the expansive part is **deep blue**, which on expansion, turns to **pale blue** so that a visual inspection of the Hydrotite will establish its conditions.

## > PACKAGING

| PROFILE                                     | Metres/Roll | Metres/Carton |
|---|-------------|---------------|
| CJ-0725-3K-AD                               | 10          | 40            |
| DSS0220-AD                                  | 25          | 100           |
| CJ1020-2K-AD                                | 10          | 50            |
| EJ2020                                      | 10          | 30            |
| <hr style="border-top: 1px dashed black;"/> |             |               |
| RSS1208D                                    | 20          | 40            |
| RSS1610D                                    | 10          | 20            |
| RSS2014D                                    | 10          | 20            |
| RSS2519D                                    | 5           | 10            |



EJ-2020



RSS-TYPE



DSS-0220-AD

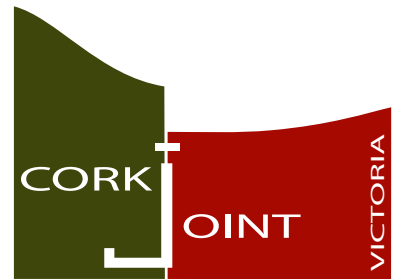


CJ0725-3K-AD

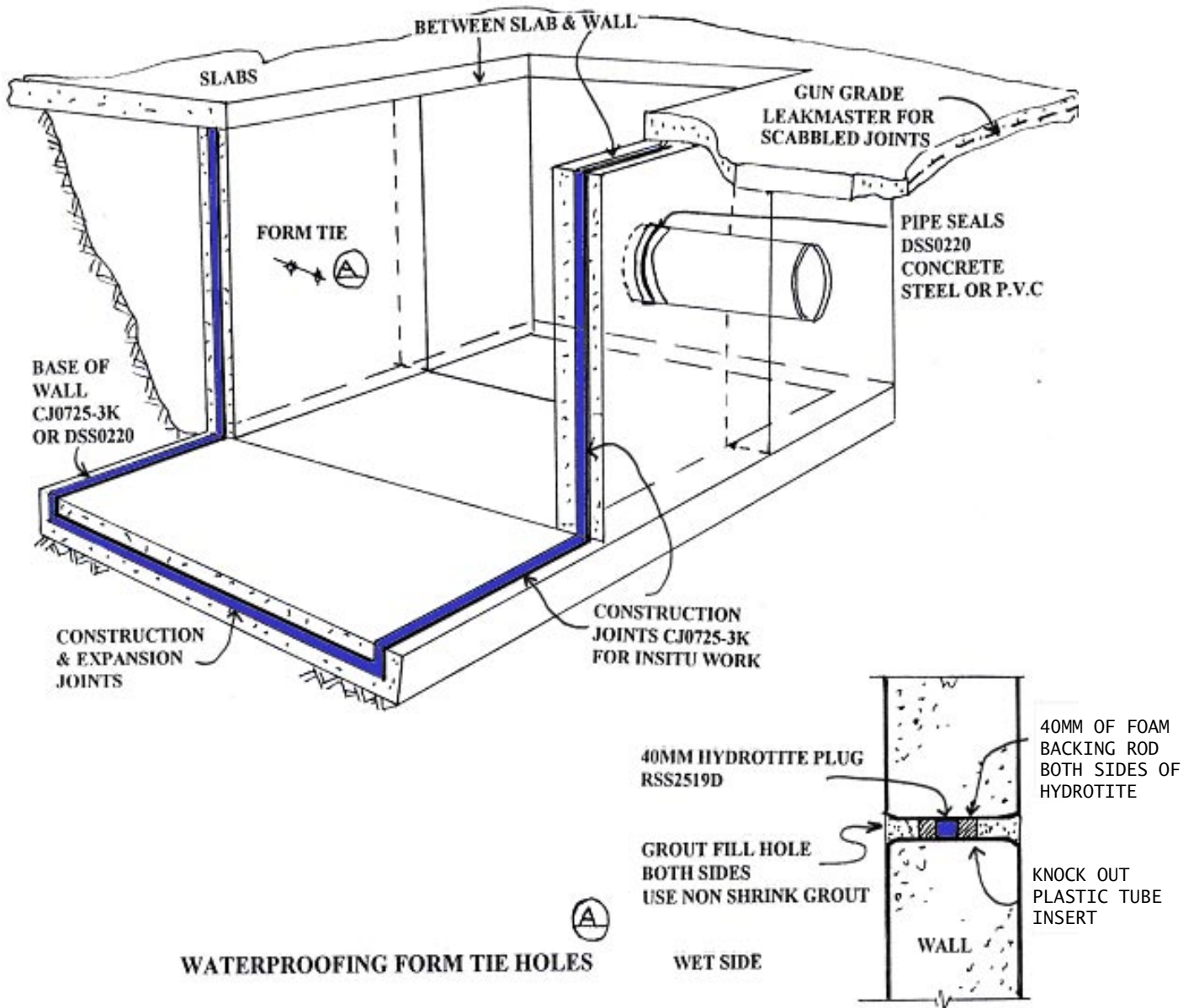


CJ1020-2K-AD

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