

PVC EDGETIE™ CJ 320

Internal PVC waterstop for construction joint in reinforced concrete structures.

Product Description

PVC EDGETIE™ CJ 320 is a PVC waterstop designed for construction joint in concrete basements and sub-structures. It is suitable for both horizontal and vertical application; it provides a passive, permanent, physical barrier to water ingress. Being cast into the centre of the concrete member, PVC EDGETIE™ CJ 320 will provide resistance against high hydrostatic pressure from both faces.

PVC EDGETIE™ CJ 320 can be used in Type B (BS8102: 2009) reinforced concrete structures to protect against water ingress through construction joint for water-resisting basements. As part of the GCP system, PVC EDGETIE™ CJ 320 provides joint protection for up to Grade 3 basements as defined in BS8102: 2009.

Product Advantages

- Pliable – remains flexible at low temperature.
- Compatibility – SERVITITE® is compatible with all GCP joint protection products and below ground water proofing systems.
- Chemically resistant – to most chemicals present in the ground including those in ‘brown field’ sites.
- Salt water resistant – unaffected by salt water and saline conditions.

Applications

According to BS 8102:

- Construction Joint protection of water-resisting basements – Type B protection.
- Construction Joint protection of water-resisting basements with PREPRUFE® system – Type A protection.
- Construction Joint protection of water-resisting basements with HYDRODUCT® CF system – Type C protection.

Tunnels and Subway

Abutments and Retaining Walls

Reservoirs

Limitations

Not suitable for movement joint, please use our PVC EDGETIE™ or SERVITITE® waterstop range for this application.

Installation

A continuous waterstop network should be used at all joints to prevent the ingress of moisture using only factory produced fabrications for changes of direction or profile with site jointing limited to simple butted welds.

Before concreting, waterstops must be clean and free from concrete laitance, oil, grease or any other contamination that might prevent a good waterstop to concrete bond.

When installed centrally in a joint, minimum concrete section is 320 mm.

Slab joint:

PVC EDGETIE™ CJ 320 should be supported in specially prepared split stop-end formwork. This holds the waterstop horizontally, preventing displacement and folding so that half of the width of the waterstop will be cast into the concrete approximately half way through the slab. Care must be taken to ensure that the waterstop is retained in the horizontal plane and that adequate compaction of concrete takes place below the web of the waterstop in order to avoid “honeycombing”. Lifting the waterstop during compaction to release entrapped air will assist in forming dense compacted concrete.

After stripping the formwork supporting the waterstop, the remaining part of the waterstop can be cast into the adjoining slab taking similar precautions discussed in the previous paragraph.

Wall joints:

PVC EDGETIE™ CJ 320 must be supported in split-end form work as described for slab joints, with great care taken to ensure that the waterstop does not fold over under the weight of poured concrete. The waterstop may be securely wired to the reinforcing steel using the appropriate Secura Clips supplied, clipped over the end bulbs.

Welding:

The ends of the waterstop to be joined must be straight and square. Hold them in alignment in the jig. Insert the heated welding knife between the two ends and then press them on either side of the blade. As a good practice we recommend to test the heat of the welding knife with a small off cut of PVC EDGETIE™ CJ 320 before. If the welding knife is too hot the PVC smokes and burns, if too cold then the PVC does not melt.

The welding knife heated to the correct welding temperature is placed between the two sections of waterstop. The waterstop ends are pressed onto the heated knife and held in position to allow the waterstop to melt along the full width of each face so that an even melted bead of PVC is seen. Slide the jig halves apart before lifting the welding knife upwards in one smooth action, then immediately slide the waterstop ends closed again to bring the molten waterstop ends firmly together for approximately 30 seconds.

Supply

PVC EDGETIE™ CJ 320	10 m coil
Weight	22 kg
Standard Junction	Flat L / Flat T / FLAT X / Vert L / REV VERT L
Special Junction Fabrication	Junction made on demand to suit with site requirements. Please contact your GCP representative.
Joining Jig	PVC EDGETIE™ CJ Jig
Ancillary Products	Clamp: Flange – Wide SERVITITE® securac clip supplied in bag of 100 pieces.
Equipment by GCP	Welding knife: electrical knife 110 V or 220 V

Equipment by Others: Fine tooth saw, wire brush, Stanley knife, 110v or 220v power source, blow lamp or gas torch if non electrical mild steel knife is used.

Typical Properties

PROPERTY	VALUE	TEST METHOD
Colour	Black	
Shore Hardness A	95-100	ISO 868
Tensile Strength	> 14 N/mm ²	ISO 527-2
Elongation at Break	> 250 %	ISO 527-2
Fire resistance	B2	DIN 4102-1

All declared values shown in this data sheet are based on test results determined under laboratory conditions and with the product sample taken directly from stock in its original packing without any alteration or modification of its component parts.

Health and Safety

There is no legal requirement for a Safety Data Sheet for PVC EDGETIE™ CJ 320. For health and safety questions on this product please contact GCP Applied Technologies.

Irritating fumes (Hydrogen Chloride) will be liberated when the product is heat welded. Ensure adequate ventilation.

NBS Specification Clause

Refer to Clause E40 310.

North America customer service: 1-877-4AD-MIX (1-877-423-6491)

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GCP Applied Technologies Inc., 2325 Lakeview Parkway, Alpharetta, GA 30009, USA

P. O. Box 5006, Office 2104, 21 Floor, The Exchange Tower, Opp. JW Marriott Marquis Hotel, Business Bay, Dubai – United Arab Emirates

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