

SPECIFICATION FOR

EVERDURE WATERSTOP

INTRODUCTION:

EVERDURE WATERSTOP RTD series includes “**EVERDURE WATERSTOP 19**” and “**EVERDURE WATERSTOP 15**” is Cementaid hydrophilic type flexible strip concrete construction joint waterstop. It provides positive seal by expanding upon contact with water. **EVERDURE WATERSTOP RTD** series is an active butyl rubber based wasterstop that is designed to replace conventional passive PVC dumbbell waterstop thus eliminating the requirement of split-forming and product seam welding.

Besides, **EVERDURE WATERSTOP RTD** series is built-in with delay system which activates after approximately 6-10 days of constant exposure to water. Thus the material does not expand prematurely, does not absorb water from the fresh concrete poured against it, and helps prevent any pre- expansion if the joint becomes ponded with water. This gives the contractor peace of mind knowing that the material will not expand prior to the second pour of concrete after the formwork shutters are in place.

TYPICAL USAGES:

EVERDURE WATERSTOP RTD series is ideal for use in horizontal and vertical construction joints for cast in-situ concrete and precast concrete structures.

Typical applications for **EVERDURE WATERSTOP RTD** series include manhole, box culverts, concrete pipe, septic tanks, manure pits, foundations, slabs, underground car parks, retaining walls, storage tanks, tunnels and similar non- moving cold / construction joints.

EXPANSION RATE:

A = Potable Water	10 Days	No movement
	21 Days	15% expansion
	40 Days	>35% expansion but no loss of integrity or deterioration.
B = Salt Water	10 Days	No movement
	28 Days	25% expansion but no loss of integrity or deterioration

EVERDURE WATERSTOP RTD series has been tested to withstand a 40 metre head of pressure and because of its butyl properties actually bonds to both concrete surfaces.

SPECIFICATION:

Waterstop where shown on the drawings shall be **EVERDURE WATERSTOP RTD** series controlled expansion waterstop as supplied by CEMENTAID. The waterstop is to have a built-in delay system to avoid any pre-expansion and must not show any signs of deterioration or disintegration during and after expansion. The Waterstop is to be placed in accordance with the manufacturer installation guidelines.

LIMITATIONS:

Due to expansive forces, **EVERDURE WATERSTOP RTD** series should be both detailed and installed with a minimum 75 mm and maximum 150 mm clear cover to the face of concrete.



Photos A & B: Applicator is applying Everdure Adhesive before installing **EVERDURE WATERSTOP RTD** series in position.



For pipe waterproofing: To wrap **EVERDURE WATERSTOP RTD** series round the pipe tightly by using Everdure Adhesive and cast together with concrete later. The same waterstop shall be used at tie rod points

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TECHNICAL DATA:

EVERDURE WATERSTOP 19 & 15	
Specific gravity	1.40/1.45 ASTM D-71
Colour	Black
Hydrocarbon content ASTM D-297	47% min
Volatile Matter ASTM D-6	1% max.
Storage life	Indefinite
Application temp. range	-22°C to 52°C

Everdure Adhesive	
Adhesion	0.74N/mm ²
Viscosity	5,500 – 6,500 cps
Solids	46% by weight
Density	1.02kg/litre

ADVANTAGES:

- Built-in delay system to stop premature expansion.
- Excellent for applications to rough concrete surfaces
- No loss of integrity of waterstop
- Allows concrete to gain full strength before expansion
- For use in horizontal and vertical joints.
- Can be bedded into wet concrete.
- No compaction or displacement problems.
- Unaffected by repeated wet and dry cycles.
- Bonds to both concrete surfaces.
- Does not turn to mush or lose integrity over time in water.
- No on-site welding required as with PVC waterstops.
- Very easy to handle and install.
- No split forming required.
- Non toxic and requires no special handling.

INSTALLATION:

EVERDURE WATERSTOP RTD series is to be adhered to the previous concrete pour with Everdure Adhesive. A clean surface, free from dust, debris, etc. is required. If the waterstop has been exposed to constant water for any extended period of time (more than 10 days) check for expansion.

Joining methods of Everdure Waterstop is by a near firm butt joint and then kneading the ends together. **EVERDURE WATERSTOP RTD** series requires a minimum of 75 mm to 150 mm cover of concrete from the edge.

1. Carefully brush off any dust and debris and apply a coat of **Everdure Adhesive** to the dry concrete surface where the waterstop is to be placed.
2. The **Everdure Adhesive** provides a dust free, tacky surface to improve the adhesion of **EVERDURE WATERSTOP RTD** series to the concrete.
3. Using moderate hand pressure with the heel of the hand, press a continuous bead of **EVERDURE WATERSTOP RTD** series firmly into position. Check to be certain that the waterstop has bonded to the primed area.
4. Peel the protective backing from the exposed side of the **EVERDURE WATERSTOP RTD** series. Butt joint and knead the ends together to form a continuous uninterrupted gasket.
5. Place second pour of concrete around **EVERDURE WATERSTOP RTD** series making sure that the concrete is properly compacted and vibrated.
6. For vertical joints, apply a coat of **Everdure Adhesive** to the concrete surface and to the **EVERDURE WATERSTOP RTD** series and allow to tack off before pressing into place.

PACKING:

EVERDURE WATERSTOP RTD series includes **Everdure Waterstop 19** and **Everdure Waterstop 15** with the following different packings:

Everdure Waterstop 19 is supplied in cartons containing 6 coils. Each coil is supplied in the following size:

- 25mm x 19mm x 5m (total 30m) for insitu concrete construction joints.
- **Everdure Adhesive** is supplied in 4 litres cans.

Everdure Waterstop 15 is supplied in cartons containing 8 coils. Each coil is supplied in the following size:

- 20mm x 15mm x 7.5m (total 67.5m) for insitu concrete construction joints.
- **Everdure Adhesive** is supplied in 4 litres cans.

STORAGE:

EVERDURE WATERSTOP RTD series and **Everdure Adhesive** should be stored in a dry location, away from excessive heat or cold. Shelf life is at least one year in original, unopened packing.

HEALTH & SAFETY:

This product is hazard-free, though consumption is not advised. As a standard precaution it is best kept away from children.

APPLICATION: CONTACT CEMENTAID FOR SUPPLY AND APPLICATION SERVICE

PT. CEMENTAID SALES AND SERVICES INDONESIA

Jl. Raya Bekasi KM 17 No. 5, Jakarta Timur 13930, Indonesia

Tel. No.: +622146823504 / +622146823505

Website: www.cementaid.co.id / www.cementaid.com

