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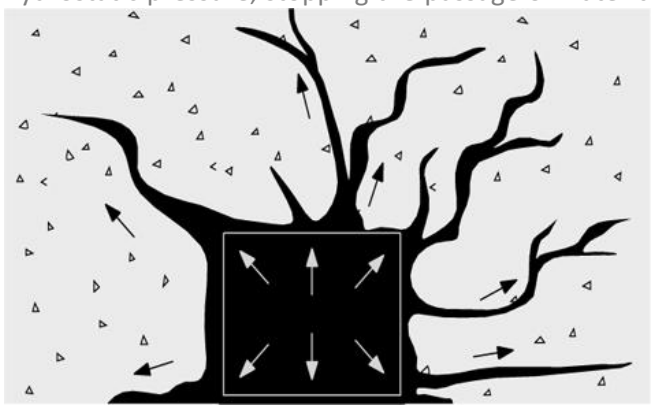
GDA Sp. z o.o. Maszynowa 30 80-298 Gdańsk Poland

GDA ActiStop Technical Data Sheet

DESCRIPTION

ActiStop is a hydrophilic strip waterstop and is a formulated blend of sodium bentonite & butyl rubber. ActiStop is an active waterstop which reacts with water to seal construction joints within concrete. The seal resists hydrostatic pressure, stopping the passage of water through the joint. Due to the sodium bentonite content on contact with water ActiStop will swell within its confinement, self-injecting into localised honeycombing & minor fissures. ActiStop is an active waterstop designed to replace passive PVC/Rubber waterbars, without the need for pre-formed intersections, split forming or seam welding. ActiStop is manufactured in coil sizes designed for single operative installation.



ActiStop can be applied to concrete, steel or pipe(PVC). Coil ends are butt jointed (not overlapped) to form a continuous waterstop.

PACKAGING & SYSTEM ANCILLARIES

ActiStop - 25mm x120mm x 5mtr coils, 30mtr per box. Box weight @25kgs. Other dimension available.
ActiFix – mtr lengths, 30mtr per box. Box weight @1.75kgs

STORAGE

All products should be stored away from direct heat in dry conditions, under cover and away from the possibility of damage or premature contact with water.

HEALTH & SAFETY

Always refer to Materials Safety Data Sheets before use, or consult with manufacturer.

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Property	Values
Edometric swelling index [%]	>160
Expansion due to contact with water (4days)	270%
Swelling pressure, kPa	>300
Permeabilty	No flow

TECHNICAL NOTE

- This data sheet is for general guidance purposes only and may not be appropriate for certain conditions.
- Conditions of use are beyond our control therefore we cannot warrant the results to be obtained
- The information given was correct at the time of issue. However, we are committed to continually improving products and reserve the right to change product specifications.
- For latest information contact supplier.

TYPICAL USES

- Construction joints in in-situ reinforced concrete structures.
- New to existing concrete construction.
- Pipe penetrations – wall & floor.
- Irregular surfaces.
- Box out penetrations & remedial sections.

ADVANTAGES

- Non-dimensional swell allows complete injection to surrounding voids.
- Conformable – can be applied to a range of irregular substrates.
- Resists in excess of 6 bar (60m) hydrostatic pressure.
- Swelling many times more than its dry volume to form in-penetrable gel.
- Simple butt jointing on site application.
- Reproducible swell after wet-dry cycle.
- Unaffected by freeze/thaw cycling.

LIMITATIONS

- ActiStop is not designed to function in movement/expansion joints.
- ActiStop is designed for minimum 20N/mm2 reinforced concrete & requires confinement and a minimum 75mm cover to all sides.
- ActiStop should not be subjected to submersion or remain in contact with water prior to concrete pour. If the product exhibits any considerable swell prior to concrete pour it must be replaced.
- In conditions where sever ground water chemical contamination exists or is expected consult manufacture for approval.

APPLICATION

Surface Preparation

Ensure surface to receive ActiStop is clean & free of standing water. Loose/flaking concrete or laitance should be removed (scabbling, brushing, jet washing,etc). Forming of rebates/chases is not required.

Application of ActiStop (using ActiFix)

Following surface preparation uncoil ActiStop with release paper intact, applying face of ActiStop to the concrete, pushing firmly against the release paper to push ActiStop into concrete undulations.

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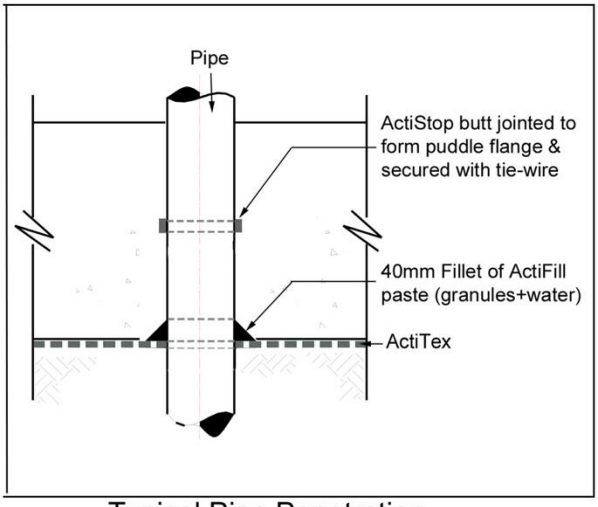
Once ActiStop has been correctly positioned, and as application proceeds remove release paper and locate ActiFix sections over the ActiStop. Lap the ActiFix by 25mm, nail through laps, with fixings supplied, centrally between ActiFix laps, fixings at @300mm c/c.

ActiFix

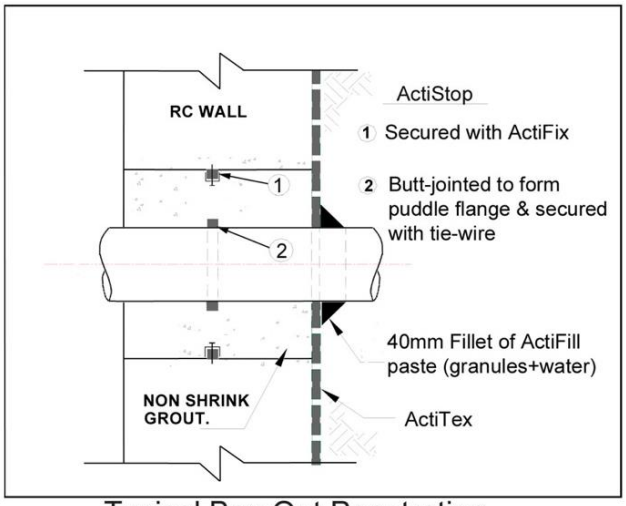
End-to-end or end-to-side junctions are created by butt jointing. Maintain continuity of ActiFix by pressing firmly together. Start at junctions do not stretch ActiStop to fit. Do not overlap ActiStop.
On irregular surfaces to or to fill unavoidable gaps behind the ActiStop (e.g. cleavages in secant piles, etc.) ActiSeal can be used as a bed for ActiStop to ensure no voids are present. Additional fixings through the ActiFix may be required to conform to the surface profile.

Application of ActiStop (using ActiStop Adhesive)
Following surface preparation apply continuous bead of the AcitStop Adhesive onto the substrate to receive ActiStop. Firmly press the ActiStop into the bead of adhesive and hold for @20seconds. For best results apply ActiStop to adhesive within 15 minutes of adhesive application. Construction joints in in-situ concrete structures. ActiStop Adhesive can be applied to damp surfaces, but not in standing water.
To join ActiStop along its length or at intersections, simply 'cut & but' to form a continuous network. Do not overlap ActiStop.

Penetrations- Cast In
Ensure pipe, etc, surface is clean and free from grease, etc. Cut the required length of ActiStop to form a 'puddle flange', butting ends to form a complete seal. The ActiStop can be also secured using tie-wire.
To seal around steel beams, columns, shoring, etc, apply a continuous bead of ActiStop Adhesive to the surface. Then ActiStop cut & butted at each internal corner, to ensure a tight continuous seal to surface.



Typical Pipe Penetration



Typical Box-Out Penetration

Penetrations- Box Out
Apply ActiStop to all sides of the concrete box out, by cut & butting each internal corner to ensure tight seal. Fix ActiStop with either ActiFix or ActiStop Adhesive.
Form 'puddle flange' around penetration and fill box out void with non-shrink grout.