

Technical Data Sheet

ActiStop



DESCRIPTION

ActiStop is a high-swelling 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 (75%) on contact with water ActiStop will swell within its confinement, self injecting into localised honeycombing & minor fissures.

ActiStop is a system pre-requisite to be used in all reinforced concrete construction/day-work joints

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 typically mechanically fixed to the concrete application surface using ActiMesh, a metal mesh cage, supplied with washered hardened steel nails. This method is preferred, as it allows application in all-weather conditions.

ActiStop is manufactured in coil sizes designed for single operative installation.

ActiStop can be applied to concrete, steel or plastic.

Coil ends are butt jointed (not overlapped) to form achieve continuity.

PACKAGING & SYSTEM ANCILLARIES

ActiStop - 25mm x 20mm x 5m coils
30m per box. Box weight 27kg.

ActiMesh – 90 No. 340mm lengths (3 No. bundles of 30), 30.6m per box. Nails included.

ActiFix – Moisture cure adhesive suitable for damp surfaces.

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

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 9 bar (90m) hydrostatic pressure.
- Swelling many times more than its dry volume to form an impenetrable 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 ground water contamination exists or is expected consult manufacturer for approval.

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 GDA UK.

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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 ActiMesh)

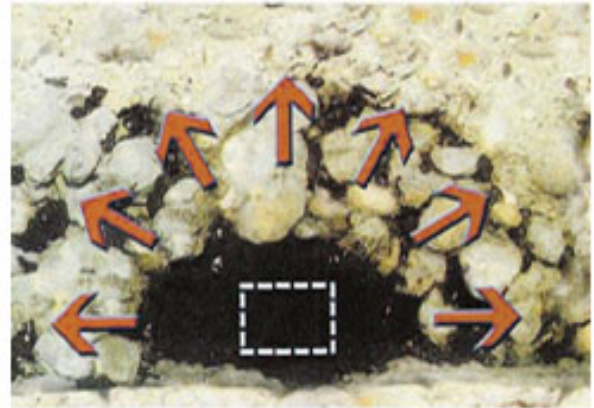
Following surface preparation uncoil ActiStop with release paper in tact, applying face of ActiStop to the concrete, pushing firmly against the release paper to push ActiStop into concrete undulations. Once ActiStop has been correctly positioned, and as application proceeds, remove release paper and locate ActiMesh sections over the ActiStop. Lap the ActiMesh enough to nail through laps with fixings supplied, effectively nailing at 300mm c/c. To join ActiStop along its length or at intersections, simply 'cut & butt' to form a continuous network. 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 ActiMesh may be required to conform to the surface profile.

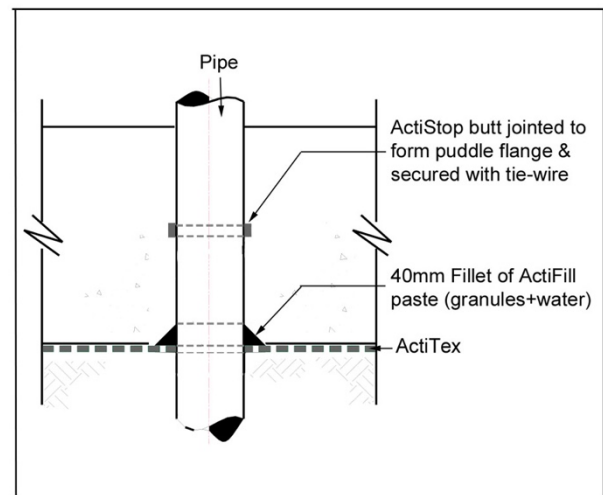
Application of ActiStop (using ActiFix adhesive)

Following surface preparation apply continuous bead of a moisture cure adhesive suitable for damp surfaces 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. The adhesive can be applied to damp surfaces, but not in standing water.

To join ActiStop along its length or at intersections, simply 'cut & butt' to form a continuous network. Start at junctions, do not stretch ActiStop to fit. Do not overlap ActiStop.



ActiStop is not limited to dimensional swell, but swells and self-injects to fill voids and cracks.



Typical Pipe Penetration

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Penetrations - Cast In

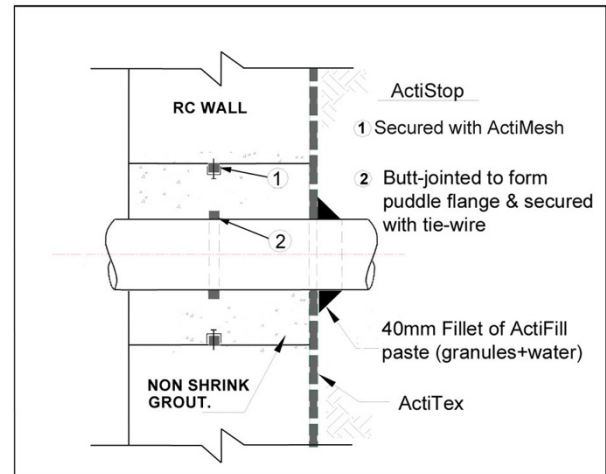
Ensure pipe, etc, surface is clean and free from grease, etc. Cut the required length of ActiStop to form a 'puddle flange', butting ends to form a complete seal. Secure using tie-wire.

To seal around steel beams, columns, shoring, etc, apply a continuous bead of an ActiFix adhesive to the surface. ActiStop should be cut & butted at each internal corner, to ensure a tight continuous seal to the surface.

Penetrations - Boxed Out

Apply ActiStop to all sides of the concrete box out, using the 'cut & butt' method at each internal corner to ensure a tight seal. Fix ActiStop with either ActiMesh or ActiFix adhesive.

Form 'puddle flange' around penetration and fill box out void with concrete or non-shrink grout.



Typical Box-Out Penetration