

FLEXSWELL

DESCRIPTION

FLEXSWELL waterstop is a special sealing compound. It is ideal for horizontal and vertical construction joints for cast-in-situ concrete.

When exposed to moisture, FLEXSWELL expands to form a compression seal in concrete joints in a controlled manner. Being a hydrophilic polymer based waterstop, it will not expand to a point that it causes the waterstop to 'disintegrate'.

The typical expansion characteristics when exposed to potable water is as follows:

- 7 days – 118% movement
 - 14 days – 131% expansion
 - 28 days – 142% expansion
 - 56 days – 177% expansion
- (Note: 100% indicates original size)

USES

Typical applications of FLEXSWELL in horizontal and vertical construction joints:

- Tunnels
- Box culverts / manholes / pits
- Retaining walls
- New to old concrete
- Poured in-situ construction joints
- Above & below grade precast panels

ADVANTAGES

- Very easy to handle and install
- Excellent applications to rough concrete surfaces
- Can be bedded into wet concrete
- Allows concrete to gain strength before expansion
- No compaction or displacement problems
- No on-site welding required as with PVC waterstops
- No split forming required
- Non toxic and requires no special handling

METHOD OF USE

When installing FLEXSWELL, it is important to provide a minimum of 50mm clear cover to the face of concrete due to its expansive forces.

Surface Preparation

Ensure that dust, oil and foreign materials are removed.

Application

FLEXSWELL is to be adhered to the first concrete pour with FLEXSWELL primer/adhesive.

Apply a coat of FLEXSWELL primer/adhesive 30mm wide onto the concrete surface and one coat to the surface of the FLEXSWELL. Wait for both surfaces to be touch dry before adhering. For vertical joints, it may be necessary to secure FLEXSWELL with nails prior to the drying of adhesive.

To ensure full contact of FLEXSWELL with the adhesive, press firmly onto FLEXSWELL into position. There must be no visible gaps between FLEXSWELL and concrete surface.

Do not stretch the FLEXSWELL during application. The protective paper layer cover on the FLEXSWELL waterstop can be removed anytime prior to the second pour of concrete taking place.

Once the FLEXSWELL adhesive/primer has dried, the second pour of concrete can be applied. Upon pouring, make sure the concrete is properly compacted and vibrated around the FLEXSWELL waterstop.

SPECIFICATIONS	
Colour	Black
Size	25mm x 19mm
Specific Gravity	1.40 / 1.45 (ASTM D-71)
Hydrocarbon Content	47% (ASTM D-297)
Volatile matter	1% maximum (ASTM D-6)
Penetration Cone @ 77°F, 150gm; 5 second	40 ± 5 (ASTM D-217)
Head Pressure	Tested to 60m
Application Temperature	-22°C to 52°C
Service Temperature	-34°C to 82°C

PACKING

FLEXSWELL comes in 25mm x 19mm x 5m rolls (6 rolls per carton)

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