TIKISWELL

Swellable Waterbar for Insitu Concrete

DESCRIPTION

TIKISWELL is tough and flexible active joint sealing swell-able profile used to prevent the passage of water through non-movement joints in both new in-situ concrete and between new and existing concrete.

TIKISWELL consist of high performance hydrophilic swell-able acrylic composition and thermoplastic elastomer.

TIKISWELL when comes in contact with water, increases in volume up to a maximum of 300% and imparts resistance to hydraulic pressure.

Swelling of **TIKISWELL** in fresh concrete is minimal thereby maximizing the positive pressure seal provided by the hydrophilic bar to the protected joint.

The advanced hydrophilic groups in **TIKISWELL** are not subject to extraction nor to the loss of swelling performance by prolonged or repeated wetting and drying cycle.

The unique swelling action of **TIKISWELL** creates a positive pressure against the face of the concrete joint, thus preventing water passage through the protected joint.

USES

TIKISWELL is used to:

- Waterproof casting and header joints in concrete.
- Waterproof joints between pre-cast concrete elements.
- Waterproof around all sorts of transitions and penetrations in in-situ concrete.
- Waterproof stationary joints.
- Waterproof connecting joints.

ADVANTAGES

- Easy to install
- Swelling properties unaffected by long term wetting or drying cycles.
- Delayed swell action allows extra tolerance on site during fresh concrete pour.
- Sustains effective seal in wet conditions
- Retains its shape without splitting or cracking, even at maximum swelling.
- Elastomeric properties are retained in maximum swelling state.
- Bentonite free.

PROPERTIES

Form	Rectangular section elastomeric strips.
Solid content	100%
Unrestrained volumetric expansion	Up to 300%
Application temperature	-20°C to 50°C Service
Service temperature range	-30°C to 70°C
Hydrostatic pressure resistance	Up to 60 meters (6 bars)

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

The surface shall be clean and dry during installation of **TIKISWELL**. A smooth surface is preferable.

APPLICATION

TIKISWELL shall be applied to the middle of the construction joint. It is advisable to allow at least 8cm of concrete on both sides of the expanding sealant to prevent cracks in the concrete.

TIKISWELL can be fixed on the substrate by using gungrade **TIKIFIX NF** adhesive and thereby bonded to the prepared base.

TIKISWELL can be installed by spot bonding with **TIKIFIX NF** adhesive at a suitable distance.

Apply a desire bead-width of **TIKIFIX NF** adhesive using cartridge gun to the concrete surface where the **TIKISWELL** is to be installed.

Rough surfaces will require more adhesive. Immediately press the **TIKISWELL** into the adhesive by unrolling the strip as you progress ensuring continuous contact. Do not allow time for the adhesive to form a skin. Allow adhesive to dry before pouring concrete.

Never use nailing to fix **TIKISWELL** to the substrate.

The ends of the **TIKISWELL** bars should be placed head-to-head against each other or with an end overlap of 10cm (strips are placed adjacent to each other with 10cm overlaps). Never place end laps of **TIKISWELL** butted to each other.

Protect **TIKISWELL** from rains until concreting.

During concreting, compact well around **TIKISWELL** profiles to provide a dense concrete without and honeycombs or voids.

Do not use in expansion joints.

SUPPLY

TIKISWELL is supplied in rectangular section strips. With shelf life of 2 years if placed in original packing, dry and frost free conditions.

Product	Dimension* (W x H)	Packing
TIKISWELL 1005	10mm x 05mm	20 mtr. Roll
TIKISWELL 1010	10mm x 10mm	20 mtr. Roll
TIKISWELL 2005	20mm x 05mm	20 mtr. Roll
TIKISWELL 2010	20mm x 10mm	10mtr. Roll
TIKISWELL 2020	20mm x 20mm	10mtr. Roll
TIKISWELL 2520	25mm x 20mm	10mtr. Roll
TIKISWELL 2525	25mm x 25mm	10mtr. Roll

*Any other specification can be made to order.

STORAGE

TIKISWELL must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, direct sunlight.

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