

# KingSwell® STD

High performance hydrophilic waterstops.

## DESCRIPTION

KingSwell STD is made of bentonite free high performance polymer modified chloroprene rubber strips. The swelling action is the result between water and hydrophilic groups which are part of the KingSwell STD molecular structure.

Expansion of the waterstop creates a positive seal against the face of the concrete joint and prevents the water entry into the structure through the protected joint.

## APPLICATIONS

Hydrophilic waterstop can be applied against existing concrete and are simply installed by nailing or using a hydrophilic adhesive. In contact with water, KingSwell STD strips react and swell to form a compression seal.

Hydrophilic strips are suitable for installation in contraction and construction joints. KingSwell STD is used primarily for foundation walls slabs, slabs-on-grade, pre-cast wall panels, manholes, pipe connections, box culverts, utility and wet wells, and potable water tanks.

## ADVANTAGES

- ☞ Active protection- KingSwell STD hydrophilic waterstop swell in contact with water to form an effective compression joints.
- ☞ Simple application and jointing techniques.
- ☞ Slow expansion rate to prevent damage to freshly placed concrete during curing.
- ☞ Retains original shape after repeated and contraction.
- ☞ Swelling properties unaffected by long term wet/dry cycling.
- ☞ Sustains effective seal in wet conditions.

## METHOD OF INSTALLATION

KingSwell STD can be installed either by suitable adhesive using KingSwell STDS or mechanically by nails. When using KingSwell STDS adhesive, extrude enough materials on a sound clean substrates and immediately fix firmly KingSwell STD into KingSwell STDS adhesive.

## TECHNICAL PROPERTIES

Colour:	Black or blue
Service temperature range:	-30 to 70°C
Shore A Hardness:	40 - 50
Expansion volume: (fresh water)	≥ 200%
Hydrostatic pressure resistance:	> 50 m (5 bars)

Also KingSwell STD can be fastened in place using masonry nails at approximately 300 mm centers. Care should be taken however to ensure that the substrate has sufficient strength to enable a mechanical fixing to be securely driven without damaging the KingSwell STD.

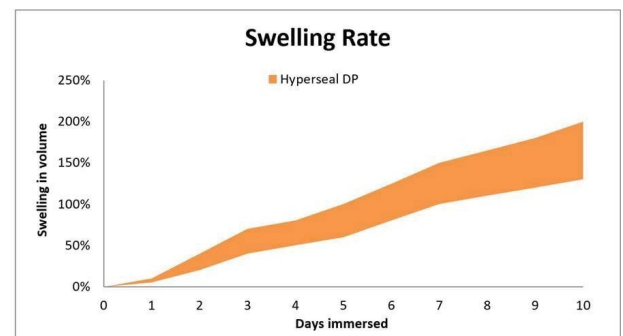
Alternatively, a groove can be cast into concrete to facilitate application. KingSwell STD is suitable for use in most weather conditions, but heavy rain or prolonged immersion will cause premature swelling.

Should this occur, it will be necessary to allow it to dry out, or be dried with a hot air gun before concrete pouring takes place. KingSwell STD should not be used in expansion joints, or any concrete section of less than 150 mm width.

## PACKAGING

### Available sizes:

- ☞ DP-2003: 20 mm x 3 mm. (30 m x 10 rolls/box).
  - ☞ DP-2004: 20 mm x 4 mm. (25 m x 10 rolls/box).
  - ☞ DP-2005: 20 mm x 5 mm. (20 m x 10 rolls/box).
  - ☞ DP-2010, (N): 20 mm x 10 mm. (10 m x 10 rolls/box).
  - ☞ DP-2020, 20 mm x 20 mm. (10 m x 2 rolls/box).
  - ☞ DP-2520, 25 mm x 20 mm. (10 m x 2 rolls/box).
- (N) Option: center stainless net insert.





# KingSwell<sup>®</sup> STD

## STORAGE

Shelf life is 1 year when stored under cover, out of direct sunlight and protected from extremes of temperature.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult KingKrete's Technical Services Department.

## HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local KingKrete representative. KingKrete Inc. reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY AND CARE

All products originating from KingKrete's manufacturing facilities are manufactured under a management system independently certified to conform to the requirements of the quality standard ISO 9001.

\* Properties listed are based on laboratory-controlled tests.

® = Registered trademark of the KingKrete-Group in many countries.

## K KK-SA-03.2-SW-STD-R3-2601

### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this KingKrete Inc. publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

### NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by KingKrete Inc. either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not KingKrete Inc. are responsible for carrying out procedures appropriate to a specific application.

