

# KingSwell® 2010

High performance hydrophilic waterstops for use with fresh and sea water.

## DESCRIPTION

KingSwell 2010 is made of bentonite free high performance polymer modified chloroprene rubber strips. The swelling action is the result between water (fresh or saline) and hydrophilic groups which are part of the KingSwell 2010 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, hydrophilic strips react and swell by up to 350% of their original dimensions to form a compression seal.

## ADVANTAGES

- ☐ Active protection- KingSwell 2010 hydrophilic waterstop swells in contact with both fresh water and saline (sea) water to form an affective compression joint.
- ☐ Slow expansion rate to prevent damage to freshly placed concrete during curing.
- ☐ Retains original shape after repeated and contraction.

## STANDARDS

KingSwell 2010 complies with KS M 6518.

## METHOD OF INSTALLATION

KingSwell 2010 can be installed either by suitable adhesive using KingSwell Seal or mechanically by nails when using KingSwell Seal adhesive, extrude enough materials on a sound clean substrates and immediately fix firmly KingSwell 2010 into KingSwell Seal adhesive. Also KingSwell 2010 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 Seal DP- 2010H. Alternatively, a groove can be cast into concrete to facilitate application.

## TECHNICAL PROPERTIES

Colour:	Black, blue or red
Service temperature range:	-30 to 70°C
Expansion volume:	
Fresh water	250 - 350%
Saline water	80 - 100%
Hydrostatic pressure resistance:	> 50 m (5 bars)

KingSwell 2010 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 2010 should not be used in expansion joints, or any concrete section of less than 150 mm width.

## PACKAGING

### Sheet sizes:

DP-2010, (H): 20 mm x 10 mm . (10 m x 10 rolls/box).

Other sizes are available upon request

## 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

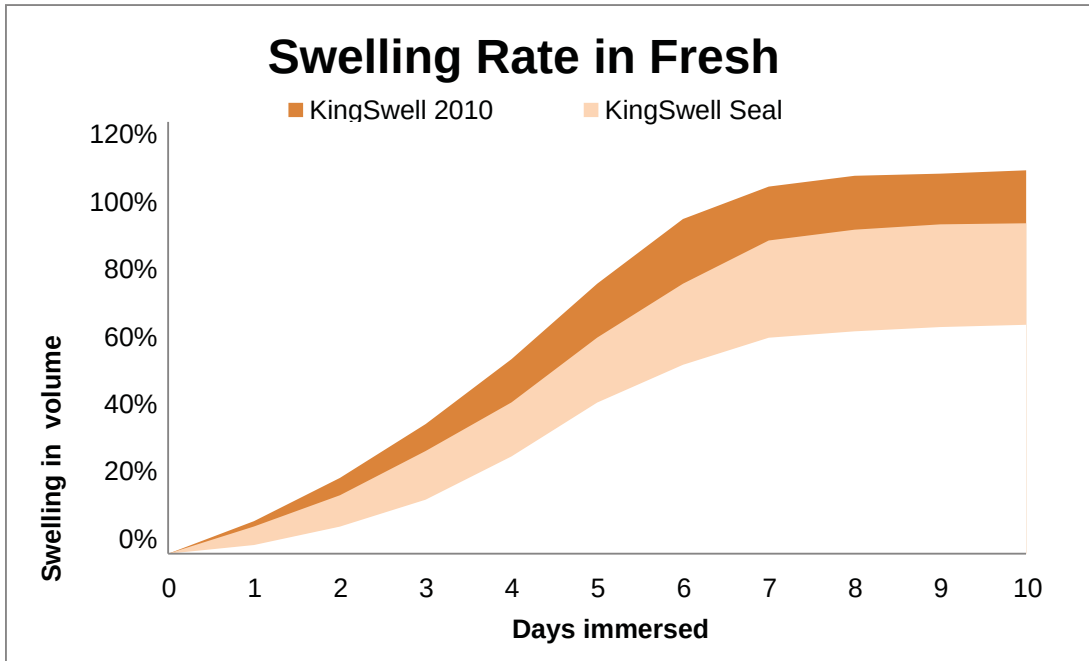
As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

## Swelling Rate in Fresh



# KingSwell<sup>®</sup> 2010

Swelling in volume





# KingSwell<sup>®</sup> 2010

## 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.

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### 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

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