

## SWELLGUARD

SWELLGUARD is a hydrophilic polymer based waterstop, re-swellable, polymer based on the latest Hybrid Technology to overcome problems commonly occurring with Bentonite based and PVC Waterstop during fixing and concrete pouring. Hydrostop is used for sealing purposes in civil engineering, structural engineering as well as tunneling for water pressure upto 5bar.

### ADVANTAGES

SWELLGUARD has a three dimensional polymer structure, which is build up from chemically resistant unstructured Polyurethane chains (macromolecules).

The linkage of the polymer chains is resistant to micro-bacterial attack.

The swelling ability happens due to hydrophilic polymer resin, which can expand in contact with water upto 750% to 800% from its original volume and has a capacity to swell and shrink during repeated wet/dry cycles.

SWELLGUARD is safe and environmentally friendly material suitable for use in potable water tank, water retaining structures to used for sealing of construction joints, restoration of expansion joints, sealing of precast concrete segments, sealing of tubing part in tunneling, proofing of shafts and pipe penetrations.

### APPLICATION FEATURES

Sealing of Construction Joints:

For the successful application of SWELLGUARD in construction joints, the profile has to be placed into the centre of the reinforcement or at least 10cm away from the side exposed to water. It has multi installation option, adhered fully using primer and can be nailed onto the concrete substrate. It has to be sure that the SWELLGUARD profile cannot change its position while concreting. The surface must be free from cavities, cracks, gravel pockets. The rough surfaces should be smoothed before priming or nailing of the profile.

### STORAGE

Packaging	7 x 15 metre coil / carton (other packing also available)
Colour	Blue
Shelf Life	Excellent shelf life of 2 years, protect from direct sunlight and high humidity.

### SCOPE OF APPLICATION

- Water Tanks and Reservoirs.
- Waste Water Treatment Structures.
- Sewage Treatment Structures / Concrete Pipes.
- Swimming Pools.
- Cast in Place and Segmental Tunnels.
- Dams.
- Basements.
- Marine Structures such as Dry Docks / Culverts.
- Pile Caps / Secant Pile Walls.

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### TECHNICAL SPECIFICATIONS AND PERFORMANCE VALUES

Colour	Blue (other colors also available on demand)
Density Approx.	1.0gr/cm <sup>3</sup>
Hardness Approx.	38 (Shore A type)
Tensile Strength Approx.	1.5 MPa - 2.1 MPa
Elongation Approx.	490% - 770%
Hydrostatic Pressure	>50m (5bar)
Swelling Percentage Approx.	750% - 800% by volume
Swelling Retarding	Yes
Profile Types	Rectangle and Box profiles
Size	5mm x 18mm

The specified periods are valid at 20°C surface and ambient temperature, the time is prolonged at low temperature, the time is shortened at high temperature. Green streak is not responsible for application errors that may occur if the product is used outside its purpose or if the application conditions and recommendations specified above are not complied with.

### SAFETY PRECAUTIONS

During use and storage, appropriate work clothes, glasses, gloves and masks should be used for worker health and safety. Eye, mouth and skin contact should be avoided. The contacted area should be washed with plenty of water. In more dangerous situations or if the product is swallowed, a specialist doctor should be consulted immediately. Food and drink should not be allowed into application areas. It should be kept out of reach of children. For detailed information, the Safety Data Sheet (SDS) should be consulted.

### LEGAL WARNING

If this product is used for any purpose other than its intended use, or if the above instructions and conditions are not followed, any problems or damages that occur will be the responsibility of the user. Green streak construction chemicals will not be held responsible in such cases.

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