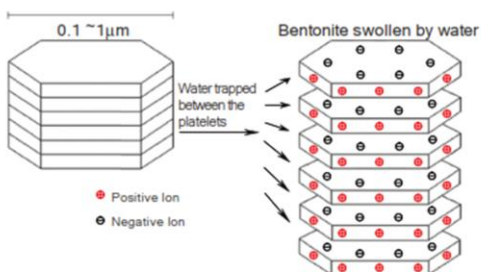


SEALCLAY WATERSTOP



DESCRIPTION

A flexible hydrophilic natural rubber & bentonite waterstop for construction joints and sealing precast elements that expands on contact with water. The bentonite in Sealclay Waterstop consists of tightly packed charged microscopic platelets, between and within these platelets there is a separation of charges positive and negative. Water molecules are attracted to the unique structure of positive and negative charges and wedge themselves between the platelets causing them to separate & swell. The hydrated bentonite forms a seal preventing further migration of water. As hydrostatic pressure is increased the platelets compact forming a tighter seal.



USES & ADVANTAGES

Sealclay Waterstop is used to stop water infiltration through both vertical and horizontal non-moving construction joints, irregular surfaces and around penetrations through concrete. It is not intended as an expansion joint sealant. It is designed to replace conventional waterstops in construction joints. The sodium bentonite in Sealclay Waterstop is the key to its success. Bentonite swells and is released (free expansion) when in contact with water blocking pores, capillaries, minor cracks & other paths for water forming a permanent impermeable barrier.

Typical areas of application include:

Below and above grade structures such as water tanks, waste water treatment plants, tunnels, basements, lift shafts, underground stations, subway systems, manholes, culverts, reservoirs, potable water treatment plants, swimming pools, canals etc.

Advantages include:-

- Light weight flexible coils easy to install.
- Eliminates seam welding & split forming associated with PVC/r• Butt end joining, continuous waterstop.
- Withstands hydrostatic water head up to 70 metres.
- Forms a positive seal, sealing cracks & small voids.
- May use in potable water tanks. Non toxic.

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- Can apply to irregular concrete surfaces. No need to level.
- Compressible and malleable allowing for good contact in joints.
- Unaffected by repeated wetting & drying cycles.
- Does not deteriorate lasts life of structure.
- Fast installation.
- Permanently active system.
- Self healing.

TYPICAL PROPERTIES

Complies to REACH Regulations as per Article 33(1), EC 1907/200

◦ Hydrostatic Head Resistance	:	>70 m
◦ S.G.	:	1.6-1.7 ASTM D-71
◦ Wet / Dry Cycling	:	No effect
◦ Service Temperatures	:	-40°C to 80°C
◦ Elongation	:	>300%
◦ Colour	:	Black
◦ Adhesion to Clean Dry Concrete	:	Excellent
◦ Penetration Cone	:	40±5 ASTM D-217
◦ Typical Expansion	:	>300%
◦ Volatile Matter	:	1% max. ASTM D-6
◦ Application Temp. Range	:	-10oF to 125oF (-23oC to 52oC)
◦ Service Temp. Range	:	-30oF to 180oF (-34oC to 82oC)

Note*

- Swelling rates 100% indicates original size.

Expansion is related to the quality of water, pH, temperatures, age of material and storage conditions. Expansion rates vary in salt contaminated water consult the manufacturer before use. In salt water use Sealclay Waterstop S. Expansion rate at 23°C in potable water at 28 days. Specification shown may be changed without notice to improve the product. Properties are typical under laboratory conditions and do not constitute a specification. Field trials are recommended. Provide at least 75 mm. concrete cover. Increase cover where light

weight or low strength concrete is being used. Do not use in expansion joints.

INSTALLATION OF SEALCLAY WATERSTOP

Surface Preparation. The surface should be clean, free of all curing compounds, dry with all dirt, aggregate, rust, debris or standing water removed. Preparation/cleaning by water blasting.

HYDROPHILIC CONSTRUCTION JOINT WATERSTOP

General Installation Instructions

Apply by brush Sealclay Waterstop adhesive along the concrete by the Waterstop. Whilst still tacky (within 10-15 minutes) apply the Sealclay Waterstop and press the Sealclay Waterstop firmly to the surface for seven days. At the highest coil end on vertical sections pay particular attention. If the adhesive does not adhere to the surface. Mechanical fasteners may be used in conjunction. Tightly butt end together to form a continuous waterstop. Do not prehydrate concrete. If severe ground water chemicals or salts exist consult with Sealbond Technical. Waterstop is not self adhering.

HYDROPHILIC CONSTRUCTION JOINT WATERSTOP

SPECIFICATION

The waterstop to be used in all construction joints shall be Sealclay Waterstop approved material. The waterstop shall consist of sodium bentonite in nature and shall expand by at least 300%. It shall be capable of being butt ended, shall not be overpacked to create a packing effect in the concrete, it

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SEALCLAY WATERSTOP

shall be pliable so that it follows the concrete and may be installed to all penetrations. The material will form a positive continuous waterstop withstanding hydrostatic pressure up to 70 m.

STORAGE & SHELF LIFE

Store dry in original boxes undercover protected from direct sunlight and rain. Do not store at very high temperatures for long periods of time. The shelf life is at least 6 months when stored below 30°C.

PACKAGING & SIZES

Approximate size:-
25 x 20 mm. x 5.0 LM
6 rolls per carton. Other sizes available on request.

HEALTH & SAFETY

There are no known hazards associated with Sealclay Waterstop during normal use. Refer to product material safety data sheet.

LIMITATIONS

Sealclay Waterstop should only be used in applications where ground water is not contaminated. In areas where saltwater or organic contaminated water is expected contact Sealbond for recommendations. Sealclay Waterstop should be used in areas fully confined in concrete by a minimum of 75 mm cover. To achieve success the installation instructions must be followed. Any hydrated material allow to dry

before placement of concrete.

QUALITY ASSURANCE

ISO 9001: 2008 verified by TUV Nord.

COMPLIANCE

In compliance with the directive 89/106/EEC of the council of European communities of 21 December 1988.

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CONTACT DETAILS

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