HYDROTITE HP

HIGH PERFORMANCE HYDROPHILIC BUTYL BENTONITE WATERSTOP

DESCRIPTION

HYDROTITE HP is made of high performance hydrophilic rubber strips. The swelling action is the resultant between water and active bentonite based hydrophilic groups, which are part of the **HYDROTITE HP** molecular structure. Expansion of the waterstop creates a positive seal against the face of the concrete joint and prevents water entry into the structure through the protected joint.

APPLICATION

PVC is more resistant than rubber to oxidation, effects of ultra-violet light and the corrosiveness of petroleum products. **CENTRESEAL** waterstops are suitable for application in water retaining structures where low hydrostatic heads are involved. Typical applications are joints in swimming pools, basements, reservoirs, dams, silos and other subterranean or water-retaining concrete structures.

ADVANTAGES

Simple Installation	Installation of PVC waterstops is labour intensive and requires split-forming, edge -ties and site welding of butt joints. **HYDROTITE HP** is secured to the concrete surface with a primer. It is extremely easy to handle thus saving installation time and cost.
Active Mechanism	Traditional PVC waterstops work on a passive 'tortuous-path principle' where water travels slowly around the waterstops. **HYDROTITE HP** is an ACTIVE waterstop. It swells in the direction of water and seals the voids and cracks through which water seeps. Its' slow expansion rate prevents damage to freshly placed concrete during curing.
Flexible	Inflexible PVC waterstops require complicated detailing and a large variety of junction pieces. These processes are not required when using **HYDROTITE HP**. **HYDROTITE HP** is very flexible and is highly suited for corners and pipe penetrations. There will be no displacement or compacting problems in concrete.
Withstand High Pressure	**HYDROTITE HP** is designed to withstand 60m head of hydrostatic pressure and because of its rubbery properties it will bond to both concrete surfaces in between yet creates a rubber seal for water tightness.

USES

HYDROTITE HP can be applied against existing concrete by removing the release paper or nailing. In contact with water, hydrophilic polymers react and swell by up to 250% of their original dimensions to form an excellent compression seal.

HYDROTITE HP is used primarily for tunnels, foundation walls/slabs, slabs-on-grade, retaining walls, manholes, pipe connections, box culverts, utility and wet wells, between old and new concrete and potable water tanks.

HYDROTITE HP

HIGH PERFORMANCE HYDROPHILIC BUTYL BENTONITE WATERSTOP

PHYSICAL AND TECHNICAL DATA

Colour	: Black
Density	: 1.35 – 1.40 kg/m^3
Service Temperature	: -30 °C to 80 °C
Flash Point	: >150°C (ASTM D 93)
Expansion Volume Rate	: Up to 250% (ASTM D 471)
Heat Ageing 70 °C, 24H	: No changes observed
Sizes Available	: 25 mm x 19 mm x 5 m (One Roll) Each carton contains 6 rolls

APPLICATION

1. Apply primer onto dry concrete surface between inner and outer reinforcement bars.
2. Roll out **HYDROTITE HP** over the primed surface and press to achieve adhesion.
3. Cut to achieve desired length where necessary. The ends of the 5m rolls are butted together to form a continuous strip.
4. For pipe penetrations, wrap **HYDROTITE HP** around section of pipe before casting / grouting.
5. Cast the next section of concrete to complete joint.

PRECAUTIONS

Where ground water may be contaminated badly with lime water or sea salt, consult the manufactures for suitability of using this product.

HYDROTITE HP should be centrally placed in the joint and requires a minimum concrete cover of 50mm to confine swelling pressure.

Although **HYDROTITE HP** is designed with a retarded expansion property, prolonged immersion in water before the next concrete pour should be avoided.

SCOPE OF REGISTRATION AND STANDARDS

Manufacture of Waterproofing materials.
Compliance SIRIM testing.
Compliance with ASTM technical standards and AS 3740 - 2004 Australia Standard.

Made In Malaysia

MANUFACTURER :

CHEMIND INDUSTRIES SDN. BHD. (468913-T)
NO. 8, JALAN MERANTI JAYA 16, TAMAN PERINDUSTRIAN MERANTI JAYA,
47100 PUCHONG, SELANGOR DARUL EHSAN, MALAYSIA.
TEL: 603-8066 4128 FAX: 603- 8051 3128

www.chemind.com.my