Taian Hongyuan Geosynthetics Co., Ltd

Water stop strips is a hydrophilic swelling bentonite waterstop. The based material is bentonite clay with polymer rubber. The product swell when contact with water create more than 300% expansion. The release benonite fill void between the two portion of concrete joint.

AREA OF USES

- Construction joints.
- Water tank, waste water tank.
- Tunnels.
- Basements.
- Elevator pits.
- Retaining walls.
- Pipe penetration.
- King post.
- Sheet pile joint.
- Precast concrete structure.
- Block out.
- Pile cap.

ADVANTAGES

- Withstand hydro static pressure.
- Can use in portable water tanks.
- Fast and easy installation.
- Fast track project.
- Easy to joining.
- Durability.
- Economical.
- Easy to transport.

Applications:

1. Vertical and horizontal concrete construction joints;
2. Junction of old and new buildings;
3. Around wall pipe (including pipe and cable ducts);
4. Can be constructed in irregular surface;
5. Sealing the gap of all kinds of buildings, tunnels, underground projects and water engineering.

Main Advantages

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1. Construction simple, rapid, individual could be independent construct;
2. Easy to install and cut, no weld seams and other installation accessories;
3. Active sealing performance and permanent stability;
4. Comprehensive cost-effective;
5. Can be construct in both cold and hot weather, and can be used in the irregular surface;
6. Domestic and international practice proved to be the best construction joint waterproofing products.

Product Specifications

Length(mm)	Width(mm)	Thickness(mm)
2500	20	30
5000	10	20
3000	20	25
2500	25	25
Standard Specifications:1.Size:20mmX30mm;2. Length:5.0m/roll;3.Package:5rolls/box. Size bias:Length can be customized, width and thickness can be customized within 50mm. Other special specification and size is confirmed by two sides.		

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Product Performance and Standard(JG/T141-2001- The People's Republic of China Building Industry Standards)

Items		Index	
		Common	Slow-swelling
Anti-water pressure, Mpa;		1.5	2.5
Water welling rate in specified time/%	4h	200-250	----
	24h	----	200-250
	48h		
	72h		
	96h		
	120h		
	144h		
Maximum water swelling ratio/%;		400	300
Density,g/cm3		1.6±0.1	1.4±0.1
Heat resistance	80°C,2h	----	No flow
	150°C,2h	No flow	----
Low temperature flexibility	-20°C,2h circleΦ 20mm Rods	----	No crack
	-35°C,2h circleΦ 20mm Rods	No crack	----
Water resistance	Soak 24h	No mud	----
	Soak 240h	----	Overall expansion,no fragments

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Installation and Notes

1. To clear the debris, dross and dust, etc before installing the water stop and keep the base dry;
2. The water stop must be fixed with nails or adhesive on the surface of the central position, make sure not fall off;
3. The overlap joints of the water stop must be parallel connection and form a closed, not leaving the break point;
4. The storage and transport of the water stop avoid moisture, extrusion, deformation;

Installation:

1、 After the concrete pouring of the previous section is completed, the water stop strip shall be pasted along the boundary between the front and rear sections. It can be placed on the outermost part of the steel bar, but at least a 5cm concrete covering layer must be provided. It can be pasted directly according to its adhesive force, and can be further fixed with high-strength steel nails if necessary.

2、 Blocking bolt holes: the basement exterior wall constructed with a large formwork, and conical plastic sleeves are used on the inner and outer sides of the formwork. After the wall bolts and casing were removed, round holes with tapers at both ends were left. A conical cement mortar stick with the same size and shape as the casing can be made for plugging. When plugging the hole, clean and moisten the hole on the wall. Put a little plain cement slurry on the cone surface of the cement mortar stick and stuff it into the hole. Use 1:1 cement mortar to seal and smooth the outside of the hole. After the mortar is hardened, insert a water stop strip into the hole from the other side of the wall, and then insert a cement mortar stick in the same way.

3、Blocking horizontal construction joints: The method of blocking horizontal construction joints is relatively simple. You can directly place the water stop strip in the middle of the outer wall of the lower section, and use a small roller to slightly roll it to eliminate possible storage between the water stop strip and the concrete. The air, and use the viscosity of the water stop strip to bond with the concrete surface. Note that the water stop strip cannot be thinned or wrinkled. Concrete steel nails can be used to nail the water-stop bars to the concrete at an interval of 4-5m to prevent the water-stop bars from shifting when the concrete is poured again.

4、 Blocking vertical construction joints: When concrete is poured in sections, or small-flow construction is implemented, or small-flow construction is implemented, vertical construction joints will also appear on the concrete exterior wall. The tensile strength of the water stop bar is low. If it is suspended vertically, the water stop bar may even be broken due to its inability to bear its own weight, failing to achieve its proper water stop function. Therefore, when dealing with the vertical construction joints of the basement wall, the very thin steel wire or window screen can be cut into long strips of appropriate width, and the water stop strips can be wrapped tightly to make it have a certain strength, and then nailed with concrete steel nails. On the poured concrete on one side of the wall, after being rolled by a small roller, the water stop strip is glued to the concrete.

Notes:

1. During construction, the water stop should be protected from rain and water for a period of time after it is placed and before the concrete is poured.

2. When storing or transporting, this product should be protected from moisture or squeezing deformation. Place it in a dry place and store it neatly.

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Packaging & Shipping

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