

DH ACRYLIC SEAL

DH ACRYLIC SEAL is a two-component poly-acrylate polymer waterproofing system used in conjunction with catalyst and accelerator to stop water infiltration. The usage flexibility of this material are used in roof waterproofing system, curtain injection or blanket grouting purposes, it cured into an excellent coating with high elasticity, impermeable and chemical resistance material. Normally used as back surface injection like tunnel, subway, building basement, and roof sandwiched waterproofing system. This gel has no leaching effect and is safe even under the ground environment, none toxic and pollution free.

❖ Characteristics

Complete impermeable layer: The highly elastic and flexible gel formed after reaction has swelling Property when come in contact with water. DH ARYLIC SEAL can absorb vibration and secondary deformation of ground and structure resulting in continuously movement due to its high elasticity and water impermeable capacity.

❖ Advantages

Excellent workability: Low viscosity at 3-5 cps for easy flow and penetration into void or hair line crack.

Wide control timing: Curing time can be adjusted to site condition and requirement.

Non-toxic, pollution free and environment-friendly: Will not decomposed and leached by alkalis, acids, and organic chemicals.

Excellent Bonding Ability: It maintains the water stop effect for a long time due to excellent properties of high elasticity and high bonding properties.

❖ Area of Application:

- Sandwiched waterproof grouting for in-between concrete structure and topping.
- Water stops of underground expansion joint and construction joint.
- Blanket waterproof grouting for underground structure like tunnel, subway, basement, etc.
- Expansion joint leaking part and construction joint leakage repair.
- Leaking part of underground parking lot and underground concrete structure.

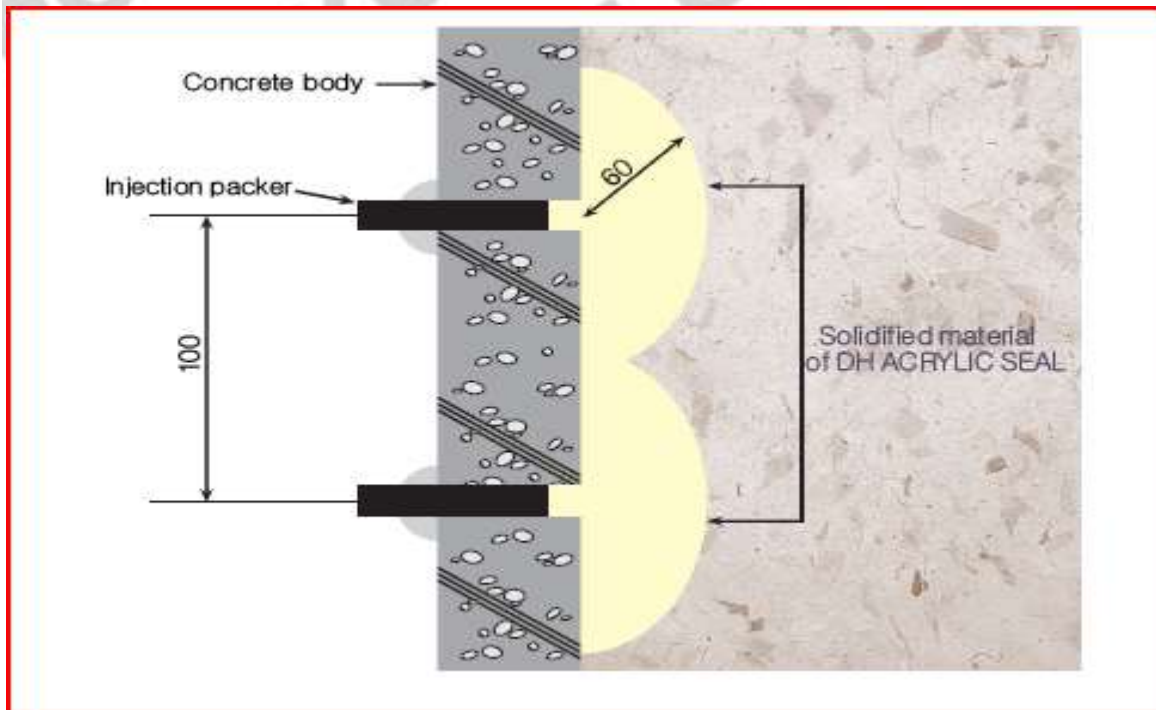
	General type(DH-30)		High concentration type(DH-50)	
	Agent A	Agent B	Agent A	Agent B
Main component	ACRYLIC RESIN		ACRYLIC RESIN	
Mixing viscosity	20Under		50Under	
Mixing ratio	100 : 100		100 : 100	
Packing unit	20KG : 20KG		25KG : 25KG	
Solidified material	Flexible Gel		Flexible Gel	
Usage	Back face grouting and joint part water stop of subway, tunnel underground structure Leakage water stop and back face grouting of architecture, civil structure			

Example diagram of blanket injection method

This method is to stop water ingress by forming a non-permeable layer on the positive side of concrete wall. Inject DH Acrylic Seal by drilling through the concrete wall with SD 60 plural injection machine couple with all necessary packers. It will form a non-permeable waterproofing layer in-between concrete structure and soil.

❖ DH Acrylic Seal- Blanket Injection Method

DH ACRYLIC SEAL forms a permanent waterproof layer when sufficiently injected into all cracks and void. Packers shall be installed at grid interval of 1000mm. To ensure full coverage, injection shall start from bottom to upward.



DH Acrylic Seal construction procedure



Drilling

Identify the area to be grouted. Drilled through concrete at interval 1000mm and install packers.



Installation of injection opening

Generally for curtain injection, Packer (10-100mm, 14-120mm) can be used, and in case of much water leakage, PVC pipe with valve can be used. After cleaning residue inside the bored hole with air compressor and water, packers shall be installed and tighten.



Injection equipment

Plural machine like SD 60 with at least 2000 psi shall be used for this application. Ensure both material are at the same pressure when in working process.



Process of Application DH Acrylic Seal

Start the injection by connecting the injection nozzle with injection packer. The injection in the wall should start at the lower point working upward. The pumping process shall be halted temporarily if Dh acrylic seal is flowing out from the upper drilled hole. Immediately insert packer to seal off. Continue injection from the upper injection port till all leakage stop. Remove packers and seal off with repair mortar. (In case of high water leakage, control the curing time by adding the accelerator in agent A.)

DH Acrylic Seal Mixing Method

DH-50 Mixing Ratio

