

WATERSTOP

RAPID-SETTING HYDRAULIC CEMENT

PURPOSE

WATERSTOP is a rapid-setting, nonshrink hydraulic cement designed to stop seepage in concrete or masonry surfaces.

WATERSTOP is recommended for stopping seepage in cracks, crevices and holes. It can be used for any small void, crack, fault or opening in concrete and masonry structures to stop water leaks.

DESCRIPTION

WATERSTOP is a special mixture of hydraulic cement and proprietary admixtures.

PACKAGING

WATERSTOP is available in 50 lb. (22.7 kg) or 10 lb. (4.5 kg) bags or pails.

PROPERTIES

WATERSTOP is tested in accordance with all applicable ASTM testing procedures.

Compressive Strength (ASTM-C-109)

55% humidity		73°F
psi	Mpa	
975	6.7	(at 1 hour)
1,870	12.9	(at 1 day)
2,950	20.3	(at 3 days)
3,650	25.1	(at 7 days)
5,910	40.7	(at 28 days)

Setting Time (ASTM-C-266)

55% humidity		73°F
Initial set:	2½ minutes	
Final set:	3½ minutes	

YIELD

Yield is approximately .5 ft³ per 50 lbs. (.013 m³ per 22.7 kg) when mixed with water. Actual yield will vary slightly depending on amount of water, mixing, temperature and other field conditions.

APPLICATION

Storage: Material should be stored in a cool, dry place. Always keep container tightly sealed when not in use.

Preparation: Thoroughly clean all cracks of grease, oil, dirt, sealers and loose material to expose sound concrete. Roughen concrete surfaces where possible, slightly undercut cracks if possible.

Mixing: Mix thoroughly with clean water to achieve a stiff, putty-like consistency. Do not mix longer than necessary, material will begin to harden immediately. Care should be taken to plan mixing and placing.

Methods: Do not mix with other chemicals or alter in any way. Basic application is as follows:

1. Prepare all cracks by exposing and thoroughly cleaning surfaces for repair.
2. Mix a small quantity of material to the desired consistency. It will be a stiff material when mixed.
3. Pack the mixed material by hand into the crack or fault using direct pressure and hold in place for a short time. Always wear protective rubber gloves.
4. Placement should be consistent and continuous from bottom to top until crack is filled. A trowel may be used to shave excess material from the surface.
5. When ambient temperature in the area to be patched is above 90°F (32°C), the mixing water should be cooled. Refer to ACI 305 Hot Weather Conditions.
6. When ambient temperature in the area to be patched is below 50°F (10°C), the mixing water should be warmed. Refer to ACI 306 Cold Weather Conditions.
7. Mixed material should be used immediately or discarded. Clean tools immediately after use.

Unusual applications or conditions may require the technical assistance of a Symons representative.

CLEAN-UP

Clean tools and equipment with water.

SHELF LIFE

Shelf life of properly stored material is one year.

PRECAUTIONS

It is mandatory to take the following precautions to protect workers and the public:

1. KEEP OUT OF THE REACH OF CHILDREN.
2. Contains free silica and may cause delayed lung injury (silicosis). Avoid inhalation of dust and ensure adequate ventilation.
3. Avoid contact with skin. Protective clothing is recommended. Contact areas should be thoroughly washed with soap and water.
4. Avoid contact with eyes. Protective goggles are recommended in case of splashing. Flush eyes with water if contact occurs.
5. Avoid ingestion of material. If ingestion occurs, contact poison center or physician.

Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet.

WARRANTY

Symons warrants, for 12 months from the date of manufacture, or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Symons, the product is free of manufacturing defects and conforms to Symons' published specifications in force on the date of acceptance by Symons of the order. Symons shall only be liable under this warranty if the material has been applied, used, and stored in accordance with Symons instructions in this technical data sheet.

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