



AQUA-STOP

Crystalline Waterproofing for Concrete Structures

INSTALLATION INSTRUCTIONS

Surface Preparation

Like all good building practices, preparation is very important to ensure that the product will work with 100% effectiveness.

- Completely remove any existing paint or coatings on the wall. **AQUA-STOP** can only be applied to bare concrete. If existing coatings are not removed, the product will not be able to penetrate into the concrete.
- If paint stripper is used, it is important to wash the area well to remove any chemical residue.
- The surface should be rough (feel like fine sandpaper) to ensure good adhesion and bonding.
- If the surface is smooth, then “rough-up” using a mechanical or hand wire brush, sandblasting, power washing, or mild acid wash with muriatic (HCL) acid.
- Any cracks larger than 0.5mm must be filled with AQUA-STOP Crack Filler before product is applied.
- Using a brush or sprayer, wash surface with plenty of clean water, prior to application, making sure the water has soaked into the concrete and the surface is wet but not running with water when the product is applied. This will enable **AQUA-STOP** to be “sucked” into the pores and capillaries of the concrete and ensure the crystalline formation deep within the pores and ensure proper curing. If the surface dries out before application, it must be re-wetted. **DO NOT APPLY TO DRY CONCRETE.**

Mixing

- **Always add powder to water NEVER water to powder.**
- For brush applications mix one of the 11.4kg bags into 2.9L of fresh water. If the mixture is too thick and hard to apply, a little more water may be added, in small increments, stirring well to desired consistency (up to 500ml per 11.4kg bag).
- For spray applications mix one of the 11.4kg bags into 3.8L of fresh water.
- Only mix enough **AQUA-STOP** for the immediate area to be covered, as once mixed you have 30 minutes to apply.
- Mix thoroughly with a mixer attachment on an electric drill to a consistency of thick paint.
- If mixture thickens in the pail-do not add more water, just re-mix.

Application – Each 11.4kg bag, when mixed with water, will cover 13.5 square metres

- Do not apply in temperatures below 5C (40F) or to a frozen substrate.
- Do not apply to a dry surface - surface must be pre-wetted with water before product is applied.
- One coat of **AQUA-STOP** is normally sufficient, but if applying a second coat it should be applied after the first coat has reach an initial set but while the surface is still “green” (normally 2-4 hours and not more than 24 hours). Light pre-watering may be required between coats due to drying.

Brush Application

- Work the product into the surface using the masonry brush enclosed, making multiple passes to ensure uniform application, and use enough product to achieve just under 1.25mm (1/16”) of coverage or 13.5m²/150 sq.ft from each bag.

Spray Application

- **AQUA-STOP** may be applied using a “Textured Hopper Sprayer” with compressed air.
- Spray in a circular movement to ensure complete coverage.

Curing

- **IMPORTANT:** Allow the coated area to dry for a few hours, until the product is no longer tacky, and then “mist” the entire surface with clean water using a spray bottle. Continue misting the surface for 2-3 days, keeping it damp and moist, so that the product penetrates deep into the surface.
- Under normal conditions it is sufficient to spray the treated surface three times per day for 2-3 days, but in hot or very dry climates, spraying may be required more frequently to prevent the surface from drying out.
- In badly ventilated areas, try to provide some air circulation for the first 24 hours.
- On exterior applications, protect the coated area from rain, frost, wind, and pooling water for at least 48 hours after application. If plastic sheeting is used as protection, it must be raised off the coated area to allow the coating to breathe.
- On interior applications, the product will be fully cured in 3-4 weeks but will continue to work deeper and deeper into the concrete as the months and years pass.
- For concrete structures that will hold water, such as swimming pools, ponds, etc., Aqua-Stop should be misted for 2-3 days and then allowed to cure for 12-14 days before filling the structure with water.
- Large structures such as swimming pools, tanks and reservoirs, should be filled with water gradually – a rate of 0.6 – 0.9 metres per day, to equalize the hydrostatic pressure and prevent cracking.

Decorating, Coating and Tiling

- All surfaces treated with **AQUA-STOP**, which are to be coated or painted, must be left to cure for 4 weeks. At the end of the curing period, the surface should be thoroughly washed with a solution of 5 parts vinegar to 1 part water to neutralize any remaining product on the surface. Following this application, the areas should again be thoroughly washed with clean fresh water prior to coating being applied.
- When a plaster or render finish is required on top of **AQUA-STOP** treatment, it is essential that a thin roughcast of sand and cement be applied after the 4 week curing period. If this is not practical, apply a suitable bonding agent, prior to plastering. Aquaseal’s DO-IT-ALL is ideal for this purpose.
- For areas that are to be dry-walled or paneled, no additional treatment is required prior to the installation of strapping.

Safety

- Wear rubber gloves and protective eyewear during mixing and application.
- This product contains Portland cement and silica and is highly alkaline. Avoid contact with skin and eyes.
- After any contact with the skin, wash with plenty of clean water. In case of eye contact, rinse immediately with plenty of clean fresh water for a minimum of 10 minutes, and seek medical advice.
- **KEEP OUT OF REACH OF CHILDREN**

Storage and Shelf Life

AQUA-STOP must be stored in a dry enclosed area off the ground. Shelf life in un-opened container is 12 months, from date of manufacture. Once mixed, any unused product should be disposed of according to local regulations.

Limited Warranty

It is the responsibility of the customer to determine the suitability of the product for the intended purpose. Factors such as temperature, surface preparation and applicator’s skill are beyond the control of Aquaseal. Therefore, the manufacturer’s liability is limited to the replacement of the defective material only.

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