STOPAQ® 2100 AQUASTOP

Product Information

Product description: Stopaq® 2100 Aquastop is a compound suited for sealing of pipe- or cable wall inlets and hollow spaces against penetration of gases, moisture, standing water and running ground water leaks. It is a non-toxic, single component, elastic, water- and gas tight synthetic compound. It adheres on dry and wet surfaces of concrete, brick, PVC and others. There is no need for primer application, and it does not cure but remains permanently flexible. The compound does not build up internal stresses and expands when exposed to water. Stopaq® 2100 Aquastop compound must be covered with a barrier of water resistant- or fire retarding mortar.

Being in service for more than 30 years, Stopaq® 2100 Aquastop has proven that the sealing properties of the material are reliable and have excellent performance over a long period of time.

Features:

- Minor surface preparation required
- Adheres on wet and dry surfaces
- Fast and easy to apply
- Does not harden and has no pot-life limitations
- Resists up to 0,5 bar [7.2 psi] of ground water pressure when appropriate barrier is applied
- Impermeable to water and gas
- Safe to use. No physical, health or environmental hazards.
- Does not age

Benefits:

- The sealing remains permanently flexible
- Does not require special tools for application
- No material waste – re-usable when not exposed to water
- Immediate sealing – no curing time
- Provides permanent and optimal safety
- No vapors or fumes, no chemical reactions
- Adjusts to slight movements of pipes & cables
- Allows adding and removing of cables in conduits at any time

Product description: Stopaq® 2100 Aquastop is is certified according to NSF/ANSI Standard 61: "Drinking Water System Components – Health Effects"

Application examples

Wall Inlets below ground water level: Stopaq® 2100 Aquastop is suited for sealing against ground- and surface water ingress around pipes and cables, leading through wall inlets into basements.

Sealing of running water leaks: For permanent stopping of running ground- or surface-water leaks through cable- and pipe wall penetrations.

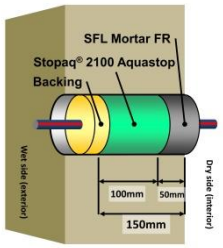
Wall penetrations inside buildings: Permanent sealing and protection of wall penetrations against gas, fire or flooding is obtained when the Stopaq® 2100 Aquastop is provided with a fire retarding- and/or water resistant mortar barrier on one or both sides.

Multi pipe- & cable inlets: Stopaq® 2100 Aquastop is perfectly suited for hermetic sealing of horizontal multiple pipe or cable wall inlets.

Product properties of Stopaq® 2100 Aquastop

Colour	Green
Density	1,35 ± 0,05 g/cm³ [11.3 ± 0.4 lb/gal] (ISO 1183-1)
Water absorption	5% - 20% (ASTM D570)
Temperature Ranges	Operational: -20 °C to +35 °C [-4 to +95 °F]
Dimension criteria	– Between cable/pipe and wall min. 10 mm [3/8"] and max. 40 mm [1½"] – Depth of wall inlet min. 150 mm [6"]
Compatibility	Stopaq® 2100 Aquastop is compatible with the following materials: – Bare metal pipes like carbon steel, stainless steel, galvanized steel, copper, etc. Additional anti-corrosion coating with e.g. Stopaq® Wrappingband is recommended in case of carbon steel pipes. – Pipe coatings like polyethylene (PE), polypropylene (PP) and liquid coatings like epoxies, etc. – Polymeric pipes like polyethylene (PE), polypropylene (PP) and polyvinylchloride (PVC). – Electrical cable jacket materials like polyethylene (PE), Polyurethane (PU) and polyvinylchloride (PVC). For compatibility with rubber jacket materials please consult Seal For Life Industries. For more information, please contact Seal For Life Industries

Properties of seal constructed with Stopaq® 2100 Aquastop and SFL Mortar FR

Construction	– Stopaq® 2100 Aquastop: 100 mm [4"] thickness – SFL Mortar FR: 50 mm [2"] thickness 
Maximum pressure	0,5 bar [7.2 psi], i.e. 5 m [1'8"] of ground water pressure. *Tested by: Deutsche Telekom AG: TS0307/96, April 2005 – "Abdichtelement ADE und Abdichtmassen ADM für mit Kabel belegte Züge"*

General order information

Product		Stopaq® 2100 Aquastop is available in different packing sizes
	Art. Nr.:	Product dimensions and contents:
	2000	Cartridge 310ml [10.5 fl oz], 25 pcs/box, 900 pcs/pallet
	2002	Cartridge 0,53 kg [18.7 oz], 20 pcs/box, 720 pcs/pallet
	2005	Tubular bag 2 kg [4.4 lbs], 9 pcs/box, 324 pcs/pallet
	2008	Pail 10 kg [22 lbs], 48 pails/pallet
Handling		Handle with care. Keep boxes and pails upright.
Storage		Store indoor, clean and dry, away from direct sunlight in a cool place below +30 °C [86 °F]. Unlimited shelf life.

Application instruction - Job preparation

Pipe and cable fixation	Pipes and cables must be fastened to avoid excessive lateral movements. Lateral forces exerted to Stopaq® 2100 Aquastop and/or the mortar barrier may damage the integrity of the sealing.
Tools, equipment and auxiliaries	– Injection tool with appropriate nozzle – Application set – Measuring tape – Putty knife, blade 50mm wide – Abrasive cleaning pads – Tube brush ø25mm – Compacting tool, e.g. pencil size piece of wood, for compacting of material in narrow gaps.
Additional materials	Backing: – Stopaq® Foam Tape or Stopaq® Back Plug. Alternative backing materials like Injectable PU-foam may be used. Please consult Seal For Life for additional information. Mortar barrier: – SFL Mortar FR: Fire Retardant mortar for application on the dry side of the seal, e.g. in basements. – SFL Mortar WR: Water Resistant Mortar, for application on the wet-side of the seal e.g. in water-basins. Alternative mortars may be used. Please consult Seal For Life for additional information.
Ambient conditions	Ambient temperature should be between +5 and +30 °C [+41 to +86 °F].
Substrate conditions	The temperature of all substrates (wall inlet, pipe- and cable surfaces) should be between +5 and +35 °C. [+41 to +95 °F].
Hot conduits	Pipes and cables with surface temperatures above +35 °C [+95 °F] must be thermally insulated prior to application of Stopaq® 2100 Aquastop.
Product conditions	Stopaq® 2100 Aquastop should be preheated to a temperature of min. +25 °C to max. +35 °C [+77 to +95 °F] prior to application. This can be achieved by placing the packed material in a bucket with lukewarm water.

Application instruction - Cleaning

General	All surfaces must be free from oil, grease, dirt, dust and poorly adhering matter, such as cement film, paint or other.
Concrete and brick wall inlet	Clean interior of the wall inlet by means of a vacuum cleaner, rubbing with an abrasive pad, sweeping with a tube brush or flushing with clean water.
Polymeric pipe wall inlet	When the wall inlet is equipped with a polymeric pipe, the interior surface should be deglossed by rubbing it with an abrasive pad.
Polymeric pipe, coatings and cable surfaces	Surfaces of polymeric type should be deglossed by rubbing it with an abrasive pad.

Application instruction – Brief version

Detailed application instructions are available from Seal For Life Industries.

Backing	In order to construct a proper seal and to prevent intrusion of soil, insert a backside barrier of Stopaq® Foam Band (or alternative) at the specified depth of 150 mm [6”] in the inlet. The foam profile(s) should fill the gap between the pipe (or cable) and the boundary of the inlet. Water leaking through the barrier will not affect proper application.
Multiple cable / pipe inlet construction	Where 2 or more cables are passing through one wall inlet, Stopaq® Foam Band should be wound around each cable / pipe in such a way that a minimum distance between the cables / pipes of at least 10 mm [$^{3}/_{8}$”] is achieved.
Injection of Stopaq® 2100 Aquastop	Insert a pre-heated cartridge of Stopaq® 2100 Aquastop into the injection tool and install the appropriate nozzle. The spout of the nozzle should be positioned as close as possible to the backing (150mm [6”] deep) at 6 o’clock position in the wall inlet. Start injection of the compound and move the nozzle from side to side, from bottom to top, while slowly moving the nozzle outwards. Make sure the nozzle remains in contact with the compound during injection. This will minimize the risk of air entrapment in the compound. Keep injecting the compound until a distance of 50 mm [2”] from the boundary of the wall inlet has been reached. Compact the applied material using a compacting tool in order to minimize air entrapment.
Application of SFL Mortar	Apply SFL Mortar FR or WR in front of the applied Stopaq® 2100 Aquastop in accordance with the application instructions.

Post-application routine

“Weeping” of seal	It might occur that a seal is weeping, i.e. the mortar barrier remains wet. If weeping has not stopped within 48 hours after initial application, post filling should be carried out as follows: – Drill a hole of approx. 12 -15 mm [½ - $^{5}/_{8}$”] diameter through the mortar barrier. – Use an injection tool with a cartridge that is equipped with a hard and rigid nozzle. – Push the injection nozzle into the hole and apply additional Stopaq® 2100 Aquastop. – Clean the wall of the hole from adhering Stopaq® 2100 Aquastop. Drilling or scraping the mortar may be helpful. Seal the hole with freshly prepared mortar.

Information

Documentation	Extensive information is available on our web-site. Application instructions and other documentation can be obtained by contacting our head office, from our local distributor or by sending email to **info@sealforlife.com**
Certified staff	Application of the described materials should be carried out by certified personnel.