IESG
INNOVATIVE SOLUTIONS | SUPERIOR COATINGS | ENDURING PROTECTION

PRODUCT DATA SHEET

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# STOPAQ® 2100 AQUASTOP

## Product Information

**Product description:** The 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, 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. The 2100 Aquastop compound must be covered with a barrier of mortar.

Being in service for more than 30 years, 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 1 bar [14.5 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 certificates:**
- NSF: ANSI Standard 61 - “Drinking Water System Components – Health Effects”
- DVGW: “Gas and water tightness”

## Application examples

**Wall Inlets below ground water level:** The 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 intrusion or flooding.

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

## Product properties of Stopaq® 2100 Aquastop

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

## Properties of installed seal

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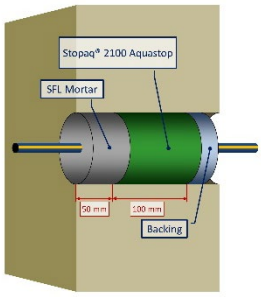
| **Construction** | – 2100 Aquastop: 100 mm [4”]<br>– SFL Mortar: 50 mm [2”] |
| **Maximum pressure** | Tested by DVGW-Forschungsstelle with inlet diameter DN100 [4”] and distance between cables/pipes and wall min. 10 mm [3/8”] and max. 40 mm [1½”]:<br>– Natural gas: 100 mBar [1.45 psi]<br>– Water: 1,0 bar [14.5 psi] |




## General order information

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| **Product** | | The 2100 Aquastop is available in the following packing sizes: |
| | Art. Nr.: | Product dimensions and contents: |
| | 2000 | Cartridge 310ml [10.5 fl oz], 25 pcs/box, 900 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 |
| | 2010 | Cartridge 0,62 kg [21.9 oz], 20 pcs/box, 720 pcs/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

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| **Pipe and cable fixation** | Pipes and cables must be fastened to avoid excessive lateral movements. Lateral forces exerted to the 2100 Aquastop and/or the mortar barrier may damage the integrity of the sealing. |
| **Tools, equipment and auxiliaries** | – Injection tool with appropriate nozzle<br>– Application set<br>– Measuring tape<br>– Putty knife, blade 50mm wide<br>– Abrasive cleaning pads<br>– Tube brush ø25mm<br>– Compacting tool, e.g. pencil size piece of wood, for compacting of material in narrow gaps. |
| **Additional materials** | Backing:<br>– Foam Band. Alternative backing materials like Injectable PU-foam may be used. Please contact Seal For Life for additional information.<br>Mortar barrier:<br>– SFL Mortar: for application on the dry side of the seal, e.g. in basements.<br>Alternative mortars may be used. Please contact 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 the 2100 Aquastop. |
| **Product conditions** | 2100 Aquastop should be preheated to a temperature of +25 °C to +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

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| **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 cleaning pad. |
| **Polymeric pipe, coatings and cable surfaces** | Surfaces of polymeric type should be deglossed by rubbing it with an abrasive cleaning pad. |

## Application instruction - Brief version

Detailed application instructions are available from Seal For Life Industries.

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| **Backing** | In order to construct a proper seal and to prevent intrusion of soil, insert a backside barrier of foam backing (or alternative) at the specified depth of 150 mm [6″] in the inlet. The barrier should fill the gap between the pipe (or cable) and the inlet. Water leaking through the barrier will not affect proper application. |
| **Multiple cable / pipe inlet construction** | When 2 or more cables are passing through one wall inlet, Foam backing should be wound around each cable or pipe in such a way that a minimum distance between the cables or pipes of at least 10 mm [⅜″] is obtained. |
| **Injection of 2100 Aquastop** | Insert a pre-heated cartridge of 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 a layer of 50 mm [2″] of SFL Mortar in front of the applied 2100 Aquastop in accordance with the application instructions. |
| **Leaking of seal after installation** | If a seal is still leaking 2 days after installation, as for example observed by the mortar barrier remaining wet, the seal should be post-filled as follows:<br>– Drill a hole of approx. 12 -15 mm [½ - ⅝″] diameter through the mortar barrier.<br>– Use an injection tool with a cartridge that is equipped with a hard and rigid nozzle.<br>– Push the injection nozzle into the hole and apply additional 2100 Aquastop.<br>– Clean the wall of the hole from adhering to the 2100 Aquastop. Drilling or scraping the mortar may be helpful. Seal the hole with freshly prepared SFL Mortar. |

## Information

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| **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 **technical@iesgsolutions.com** |
| **Certified staff** | Application of the described coating system should be carried out by certified personnel. |

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Self Healing Corrosion Prevention & Sealant Technology

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