

STOPAQ 2100 AQUASTOP

Product Information

Product description:

Stopaq 2100 Aquastop is suitable for sealing of pipe- and cable wall penetrations and cavities against the ingress of gases, moisture, standing water and leaking groundwater. It is a non-toxic, single component, water- and gas tight compound. It adheres to dry and wet surfaces of concrete, brick, PVC and others. It requires no primer, and it does not cure but remains permanently flexible. The compound does not build up internal stress and expands when exposed to water. Stopaq 2100 Aquastop compound must be covered with a barrier of mortar.

Being in service for more than 40 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 and benefits:

- Fast and easy to apply
- No chemical reactions involved, does not harden or age, remains permanently flexible and has no pot-life limitations.
- Minor surface preparation required
- Adheres to wet and dry surfaces
- Does not require special tools for application
- Safe to use, no physical, health or environmental hazards
- No material waste – re-usable when not exposed to water
- Immediate sealing – no curing time
- Resists up to 1 bar [14.5 psi] of ground water pressure when appropriate barrier is applied
- Impermeable to water, natural gas and radon gas
- Adjusts to slight movements of pipes and cables
- Allows adding and removing of cables in conduits at any time

Product certificates:

- NSF/ANSI/CAN 61: "Drinking Water System Components – Health Effects"
- DVGW - EBI: "Gas and water tightness"

Application examples

Wall penetrations below ground water level: Permanent sealing against the ingress of ground- and surface water around pipes and cables via wall penetrations in basements.

Sealing of running water leaks: 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.

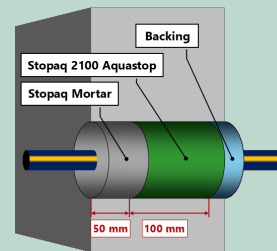
Multi pipe- and cable inlets: Permanent sealing of wall penetrations that contain multiple pipes or cables.

Product properties of Stopaq 2100 Aquastop

Colour	Green
Density	1,35 ± 0,05 g/cm ³ [11.3 ± 0.4 lb/gal] (ISO 1183-1)
Water absorption	5% - 20% (ASTM D570 modified)
Temperature ranges	Operational: -20 °C to +35 °C [-4 to +95 °F]
Compatibility	<p>Stopaq 2100 Aquastop is compatible with the following materials:</p> <ul style="list-style-type: none"> • 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 more information, please contact Customer Service.

Properties of installed seal

Construction Stopaq 2100 Aquastop: 100 mm [4"]
Stopaq Mortar 50 mm [2"]



Maximum pressure Tested by DVGW Forschungsstelle am Engler-Bunte Institut (EBI) with inlet diameter DN100 [4"] and distance between cables/pipes and wall 10 mm [3/8"] and max. 40 mm [1 9/16"]:
Natural gas 100 mbar [14.5 psi]
Water 1,0 bar [14.5 psi]

General order information

Product	<p>Stopaq 2100 Aquastop is available in the following package sizes:</p> <p>Product dimensions and content: Cartridge 310 ml [10.5 fl.oz], 25 pcs/box, 900 pcs/pallet Cartridge 0,62 kg [21.9 oz], 20 pcs/box, 720 pcs/pallet Tubular bag 2 kg [4.4 lbs], 9 pcs/box, 324 pcs/pallet Pail 10 kg [22 lbs], 48 pcs/pallet Please contact Customer Service for ordering information.</p>
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]. Due to the inherent stability of the product formulation, a shelf life is not specified when stored under the recommended storage conditions. However, it is recommended to use the product within 10 years from manufacturing date.

Application instruction – Job preparation

Pipe and cable fixation	Pipes and cables must be fastened to avoid excessive lateral and axial movements that can otherwise damage the integrity of the sealing.
Tools, equipment and auxiliaries	<ul style="list-style-type: none"> • Stopaq Injection tool. Various types available for package sizes of 310 ml, 0,62 kg and 2 kg. • Stopaq Injection set for 0,62 kg and 2 kg package size including putty knife, brush ø25mm, nozzles and fittings for nozzle. Flexible nozzle for 310 ml package size can be ordered separately. Parts of Stopaq Injection set can also be ordered separately. • Measuring tape • Stopaq cleaning pads • Compacting tool, e.g. pencil size piece of wood, for compacting of material in narrow gaps.
Additional materials	<p>Backing:</p> <ul style="list-style-type: none"> • Stopaq Foam Tape. Alternative backing materials like Injectable PU-foam may be used. Please contact Customer Service for more information. <p>Mortar barrier:</p> <ul style="list-style-type: none"> • Stopaq Mortar, for application on the dry side of the seal, e.g. in basements. Alternative mortars may be used. Please contact Customer Service for more information.
Ambient and substrate conditions	The ambient temperature and the temperature of all substrates that will be in contact with Stopaq 2100 Aquastop (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 +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.
Inlet construction	The distance between cable/pipe and wall should be min. 10 mm [3/8"]. When 2 or more cables are passing through one wall inlet, Stopaq Foam Tape should be wound around each cable or pipe in such a way that a minimum distance between the cables or pipes is at least 10 mm [3/8"]. The depth of wall inlet should be min. 150 mm [6"].

Application instruction – Cleaning

General	All surfaces must be free from oil, grease, dirt, dust and other poorly adhering matter like cement film and paint. The surfaces do not need to be dry.
Concrete and brick wall inlet	Clean the interior of the wall inlet by means of a vacuum cleaner, rubbing with a Stopaq Cleaning Pad, sweeping with a 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 roughened by rubbing it with a Stopaq Cleaning Pad.
Polymeric pipe, coatings and cable surfaces	Painted or polymeric surfaces should be roughened by rubbing it with a Stopaq Cleaning Pad.

Application instruction – Brief version

Specific Stopaq application instructions are available upon request.

Backing	To construct a proper seal and to prevent intrusion of soil, insert a backside barrier of Stopaq Foam Tape 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.
Injection of Stopaq 2100 Aquastop	Insert a preheated cartridge of Stopaq 2100 Aquastop into the injection tool equipped with 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 minimizes the risk of air entrapment in the compound. Continue injecting the compound until a distance of 50 mm [2"] from the edge of the wall inlet is reached. Compact the applied compound using a compacting tool to minimize air entrapment.
Application of Stopaq Mortar	Apply a layer of 50 mm [2"] of Stopaq Mortar in front of the applied Stopaq 2100 Aquastop in accordance with the application instructions.
Leak repair of seal after installation	<p>If a seal is still leaking 2 days after installation, as for example can be seen from the mortar barrier that remains wet, the seal should be post-filled as follows:</p> <ul style="list-style-type: none"> • Drill a hole of approx. 12 mm [1/2"] 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 Stopaq Mortar.

Information

Documentation	Extensive information is available on our website www.stopaq.com . Application instructions and other documentation can be obtained from local distributors, by contacting Customer Service, or by sending an email to stopaq@henkel.com
Certified staff	Application of the described coating system should be carried out by certified personnel.

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DISCLAIMER: Henkel warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the technical data sheet when used in compliance with Henkel written instructions. Because many installation factors are beyond the control of Henkel, the user shall determine the suitability of the products for the intended uses and assume all risks and liabilities in connection herewith. Henkel's liability is stated in its General Terms and Conditions of Sale. Henkel makes no other warranty either express or implied. All information contained in this technical data sheet is to be used as a guide and is subject to change without notice. This technical data sheet supersedes all previous data sheets on this product.