

## STOPAQ® MORTAR WR

### Product Information

**Generic type:** Cement based, rapid setting mortar for waterproofing of pipe and cable wall inlets. It protects against water penetration through pores and capillaries.

**Product description:** Stopaq® Mortar WR is suited as mechanical support and as waterproof barrier for pipe- or cable wall penetrations filled with Stopaq® 2100 Aquastop, Stopaq® 4100 Putty or Stopaq® Paste CZ/CZH/CZHT. It is especially designed as a waterproofing barrier in wall inlets that are frequently exposed to huge amounts of water. It bonds very well to concrete and brick.

#### Features:

- Excellent hold strength, also on old concrete
- Rapid water stopping in emergency situations
- Single component – just add clean water
- Very low level of cracking
- Fast and easy to apply
- Hard and tough waterproofing barrier
- Chloride free

#### Benefits:

- Rapid setting
- Single component
- Stable bonding
- No special application tools required
- Provides permanent and optimal safety

### Application examples

#### Penetrations in external walls, exposed to weather:

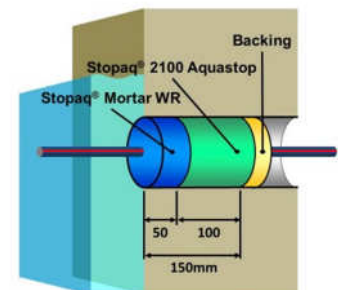
As mechanical support and waterproofing barrier for pipe- or cable wall penetrations filled with Stopaq® 2100 Aquastop, Stopaq® 4100 Putty or Stopaq® Paste CZ/CZH/CZHT.

### Product properties STOPAQ® product

<b>Colour</b>	Grey
<b>Specific gravity</b>	1.6 ± 0.2 kg/cm³ at +20°C
<b>Shrinkage</b>	None
<b>Initial setting time</b>	1 - 2 min. at +20°C
<b>Particle size</b>	45 – 150 µm
<b>Compressive strength after curing</b>	5 MPa after 1 hour 9 MPa after 6 hours 25 MPa after 28 days

### Product properties of seal constructed with STOPAQ® 2100 Aquastop and STOPAQ® Mortar WR


<b>Construction</b>	– 2100 Aquastop 100 mm thickness – Mortar WR 50 mm thickness
---------------------	---



<b>Maximum pressure</b>	0.5 bar (i.e. 5 m of water pressure)
-------------------------	--------------------------------------

### General order information

<b>Product</b>	Stopaq® Mortar WR is available in different packing sizes
<b>Art. Nr.</b>	<b>Packing size</b>
1109	Pail 0.5 kg, 20 pails/box, 560pails/pallet
1114	Pail 25 kg, 24 pails/pallet
<b>Handling</b>	Handle with care, keep boxes upright. Consult safety data sheet for appropriate safety and health measures.
<b>Storage</b>	Store indoor, clean and dry. Keep containers tightly sealed to prevent reaction with moisture.  Hard or lumpy Mortar should not be used; this has most probably reacted with moisture from air and is not capable of creating an appropriate seal.  Shelf life max. 9 months.

<b>Application instruction: Preparation</b>		<b>Application</b>	First fill the areas that are difficult to access, e.g. between cables and pipes. Squeeze the mixture towards the sides of the conduit (brick/concrete). Make sure to avoid air enclosures. Fill up with mixture towards the boundary of the conduit. Smooth the surface of the Mortar using little water and masonry tools.
<b>Tools, equipment and auxiliaries</b>	<ul style="list-style-type: none"> <li>Personal protective gear like appropriate gloves, safety goggles, etc.</li> <li>Masonry tools like, pointing trowel, tuck pointer, etc.</li> <li>Pencil size piece of wood, for compacting of mortar in narrow gaps</li> </ul>	<b>Removal of masking tape</b>	Immediately after completion of smoothing of the Mortar, remove the masking tape.
<b>Additional materials</b>	<ul style="list-style-type: none"> <li>Masking tape, width preferably 50 mm.</li> <li>Clean water, free from visible and chemical contaminations, temperature preferably +20°C.</li> <li>Plastic sheet, e.g. PE-foil</li> <li>Slip liner ("ceramic paper") in case of expanding pipes and cables during operation.</li> </ul>	<b>Controlled curing</b>	In order to minimize the risks for cracking due to too fast curing, cover the fresh mortar surface with a sheet of plastic sheet.
<b>Ambient conditions</b>	Ambient temperature should be between +1°C and +35°C during application and curing. Standard precautions for working in winter conditions with cement-like materials should be adopted.	<b>Application instruction – Retrofit repair</b>	
<b>Substrate conditions</b>	Temperature of all substrates, (wall inlet, pipe- and cable surfaces) should be between +1°C and +35°C during application and curing.	<b>Retrofit</b>	Cracks and holes should be reamed to a width of at least 15 mm to enable proper application of additional Mortar. Application should be done similar to the procedure described previously in this document.
<b>Product conditions</b>	Temperature of Stopaq® Mortar WR and mixtures thereof, should be preferably +20°C during application and curing. Lower temperatures causes longer setting periods, while higher temperatures may cause too fast curing.	<b>STOPAQ® information and warranty</b>	
<b>Surface preparation</b>	All surfaces must be free of oil, grease, dirt, dust and poorly adhering matter, such as cement film, paint or other. Make sure eventually present Stopaq® 2100 Aquastop, 4100 Putty or Paste CZ/CZH/CZHT is removed completely from the conduit walls prior to application of Mortar WR.	<b>Documentation</b>	Extensive information is available on our web-site. Application instructions, "Stopaq® Technical Standard" and other documentation can be requested from our head office, from our local distributor or by email: <a href="mailto:info@stopaq.com">info@stopaq.com</a>
<b>Expanding pipes and cables</b>	Pipes and cables might expand and shrink due to thermal fluctuations. To avoid cracking of Mortar WR, the surface of these pipes and cables should be covered with a slip liner (ceramic paper), allowing sliding of the pipes and cables through the layer of Mortar WR.	<b>Certified staff</b>	The application of Stopaq® sealing systems should always be carried out by certified personnel. Being more than 20 years in service, Stopaq® 2100 Aquastop combined with Stopaq® Mortar FR has proven that the sealing properties of the material are reliable and have excellent performance over a long period of time.
<b>Masking</b>	Mask surfaces not intended to be bonding with Mortar WR with masking tape (e.g. ends of penetrating pipes and cables).	<b>Reliable performance</b>	
<b>Application instruction: Brief version</b>		 <p><b>STOPAQ B.V.</b>                  Gasselterstraat 20                  9503 JB Stadskanaal                  P.O. Box 285                  9500 AG Stadskanaal                  The Netherlands                  T: +31 (0) 599 696 170                  F: +31 (0) 599 696 177                  E: <a href="mailto:info@stopaq.com">info@stopaq.com</a>                  I: <a href="http://www.stopaq.com">www.stopaq.com</a></p>	
<b>Wetting</b>	Wet the opening with water, using a spray bottle or a hand brush. This in order to prevent premature or excessive absorption of moisture from the freshly placed mortar.		
<b>Mixing process</b>	Small portions of mixture may be prepared by kneading the mixture by hand (use gloves). It is not recommended to prepare large quantities of mixture at once, since it will already have set partially (thereby forming hard lumps) before all material has been applied.		
<b>Mixing sequence</b>	Sequence of mixing is critical for obtaining an homogenous and easy to apply mortar mixture. First add the required amount of water to the mixing vessel, then gently add the Mortar WR bit by bit while mixing. Incorrect mixing may lead to hard lumps in the mixture.		
<b>Mixing ratio</b>	By volume: – 4 parts of Mortar WR to 1 part of water  Mixing time is 1 minute.		

DISCLAIMER: To the best of our knowledge, the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Stopaq B.V. to verify correctness before specifying and ordering. No guarantee of accuracy is given or implied. We do not accept any responsibility for coverage, performance or injuries resulting from use. Liability, if any, is replacement of products. No other warranty or guarantee of any kind is made by Stopaq B.V., express or implied, statutory, by operation of law, or otherwise, including merchantability and fitness for a particular purpose. Stopaq® is a registered trademark of Stopaq B.V.