

# **SFL MORTAR**

### **Product Information**

**Product description:** SFL Mortar is an inorganic, non-shrinking, asbestos-free mortar. It is used as a mechanical barrier for pipe- and cable wall penetrations as required with installation of sealing materials manufactured by Seal For Life Industries like Stopaq® 2100 Aquastop or Sealtaq® Aquablock. The material is well-suited for application in wall- and floor conduits and bonds well to concrete and brick.

#### Features:

- Excellent adhesion to concrete and brick
- · Fast and easy to apply
- Easy to retrofit without the use of power tools
- Compliant with EU REACH Annex XVII, contains chromium (VI) reducing agent

## Benefits:

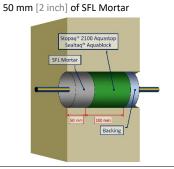
- No special application tools required
- Allows change in cable and pipe configuration through wall conduit
- Provides permanent and optimal sealing when combined with sealing materials manufactured by Seal For Life Industries
- Allows minor axial movements of pipes and cables

# **Application examples**

Cable and pipe wall penetrations: As mechanical barrier in wall conduits filled with Seal For Life sealing materials like Stopaq® 2100 Aquastop, or Sealtaq® Aquablock

Product properties of SFL Mortar	
Colour	Grey
Dry bulk density	≥ 0,9 kg/l [7.5 lb/gal]
Application temp.	≥5 °C [41 °F]
Mixing ratio	1,0 kg of SFL Mortar to 0,15 litres of water
	[1 lbs of SFL Mortar to 2.3 fl oz of water]
Pot life	Approx. 30 min at 20 °C [68 °F] after mixing
Full curing time	Approx. 28 days at 20 °C [68 °F]
Compressive strength	After full curing: M 2.5 (EN 1015-11)
Apparent density	Air dried: 1,0 kg/l [8.3 lb/gal] (EN 1015-10)
Setting behaviour	No shrinkage or expansion during curing
Properties of sealing system comprising Stopaq® 2100 Aquastop or	
Sealtaq® Aquablock and SFL Mortar	
Construction	- 100 mm [4 inch] of Stopaq® 2100 Aquastop or

Sealtaq® Aquablock



 $\begin{array}{ccc} \textbf{Performance} & & - & \textbf{Watertight up to 1,0 bar } \ [14.5 \ psi] \end{array}$ 

Gastight (natural gas) up to 100 mbar [1.5 psi]
 Tested by DVGW - Deutsche Verein des Gas- und Wasserfaches

General order information		
Product		SFL Mortar is available in different packing sizes:
	Art. Nr.:	Product dimensions and contents:
	1110-00500	Pail 500 g [1.1 lbs], 20 pails/box, 480 pails/pallet
	1110-05000	Pail 5 kg [11 lbs], 48 pails/pallet
Handling		See Safety Data Sheet for specific handling
		instructions.
		Handle with care. Keep boxes and pails upright.
Storage		See Safety Data Sheets for specific storage
		instructions.
		Store indoor, clean and dry. Keep containers tightly
		sealed to prevent reaction with moisture. Keep from
		freezing.
		Hard or lumpy SFL 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 1 year (see expiration date on label).

V 1 / 20210712(EN) Page 1 / 2

Application instructio		Applic
Fire protection of wall	In case fire protection of wall penetration is	Detaile
penetrations	required, please contact Seal For Life Industries.	Wettin
OHSE measures	See Safety Data Sheets (SDS) for applicable	
	Occupational Health, Safety and Environmental	
	measures in accordance with national regulations.	Mixing
	Personnel that will come in contact with the product	
	must wear appropriate personal protective gear.	
Pipe and cable	Pipes and cables must be fastened to avoid	
fixation	excessive movements which may otherwise damage	
	the integrity of the sealing.	
Tools, equipment and	<ul> <li>Personal protective gear.</li> </ul>	
auxiliaries	<ul> <li>Mixing equipment with grout mixing paddles</li> </ul>	
	for mixing of large quantities.	Mixing
	<ul> <li>Masonry tools (trowels, tuckpointing tools),</li> </ul>	
	e.g. for compacting of mortar in narrow gaps.	
Additional materials	<ul> <li>Masking tape, width preferably 50 mm [2"].</li> </ul>	
	<ul> <li>Clean water, free from visible and chemical</li> </ul>	
	contaminations, temperature $\geq$ 5 °C [41 °F].	
	<ul> <li>Plastic sheet, e.g. PE-film.</li> </ul>	Mixing
	<ul> <li>Slip liner in case axial movement occurs due to</li> </ul>	
	thermal expansion of pipes or cables.	
	<ul> <li>Stopaq coating system for application on</li> </ul>	
	metallic pipes prone to corrosion (if required).	Applic
Ambient conditions	Ambient temperature should be between +5 and	
	+30 °C [+41 to +86 °F]. Special measures for working	
	in winter conditions with cement-like materials must	
	be observed.	
Substrate conditions	The temperature of all substrates (wall conduit, pipe	Da
	and cable surfaces) should be between +5 and +30	Remov
	°C [+41 to +86 °F] during application and curing.	tape
Product conditions	Temperature of SFL Mortar and mixtures thereof,	Contro
	should be between +5 and +30 °C [+41 to +86 °F]	
	during application and curing.	
Surface preparation	All surfaces must be free of oil, grease, dirt, dust and	<u> </u>
	poorly adhering matter like cement film, paint, etc.	
	Make sure any present sealing materials are	Applic
	removed completely from the conduit walls prior to	Cracks
	application of SFL Mortar.	
	Conduits walls with a smooth surface like polymeric	
	materials must be roughened e.g. by sanding.	
	Absorbent conduit walls (e.g. concrete and brick)	
	must be wetted with water prior to installation.	
Axial pipe or cable	Pipes or cables might expand and shrink due to	Inform
movements	temperature fluctuations, causing slight axial	Docum
	movements. To avoid cracking of the SFL Mortar	
	barrier, the surface of these pipes and cables should	
	be covered with a slip liner, allowing axial sliding of	
	the pipes and cables through SFL Mortar.	
Masking	the pipes and cables through SFL Mortar.  Mask surfaces not intended to be bonded with SFL  Mortar with masking tape, e.g. sections of pipes and	Certific

Application instructi	on – Brief version	
Detailed application ins	tructions are available from Seal For Life Industries.	
Wetting	Wet the inside of the conduit wall with water (spray	
	bottle) to prevent excessive absorption of water	
	from the freshly installed mortar.	
Mixing ratio	<ul> <li>1,0 kg of SFL Mortar to 0,15 litres of water</li> </ul>	
	[1 lbs of SFL Mortar to 2.3 fl oz of water]	
	<ul> <li>Mixing time 3 – 5 minutes</li> </ul>	
	After mixing the mortar should have a pasty	
	consistency. It is advised to keep the water content	
	as low as possible in order to create a rigid barrier.	
	Higher water content will lead to a more fluid	
	mixture, which can be used to fill narrow gaps.	
Mixing sequence	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 SFL Mortar bit by bit	
	while mixing. Incorrect mixing may lead to hard	
	lumps in the mixture.	
Mixing process	Small portions of mixture may be prepared by	
	kneading the mixture by hand (use gloves).	
	Larger quantities should be prepared by using proper	
	mixing equipment.	
Application	First fill the areas that are difficult to access, e.g.	
	between cables and pipes. Push the mixture towards	
	the walls of the conduit (brick/concrete). Avoid air	
	inclusions. Fill up with mixture towards the boundary of the conduit. Smoothen the surface of the mortar	
	using small amount of water and masonry tools.	
Removal of masking	,	
tape	Remove applied masking tape immediately after application of the mortar has finished.	
Controlled curing	In order to minimize the risks of improper curing or	
Controlled curing	cracking - which might occur at higher ambient	
	temperatures - cover the fresh mortar surface with a	
	sheet of plastic to minimize evaporation of water.	
	street of plastic to minimize evaporation of water.	
Application instruction - Repair		
Cracks and holes	Cracks and holes should be reamed to a width of at	
	least 10 mm $[3/8"]$ to enable proper application of	
	additional SFL Mortar. Application should be done	
	according to the procedure described in this	
	document.	
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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.

