

PRODUCT DATA SHEET

SFL™ MORTAR WR

Product Information

Product description: SFL™ Mortar WR is a cement based, rapid setting mortar that can be used as a mechanical barrier for pipe- and cable wall penetrations as required with installation of sealing materials manufactured by Seal For Life Industries, e.g. Stopaq® 2100 Aquastop or Sealtaq® Aquablock. The material is particularly suited for application in situations where the mortar is frequently or continuously exposed to wet conditions, e.g. with wall penetrations exposed to weather conditions and in water storage basins. It bonds very well to concrete and brick and protects against water penetration through pores and capillaries.

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:

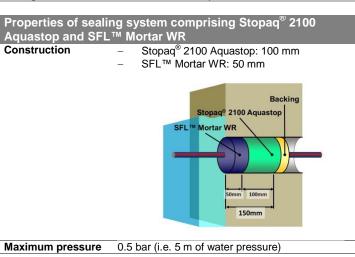
- · Rapid setting
- Single component
- · Stable bonding
- · No special application tools required
- · Provides permanent and optimal safety

Application examples

Wall penetrations exposed to weather conditions: As mechanical barrier in wall penetrations filled with Seal For Life sealing materials, e.g. Stopag[®] 2100 Aquastop, or Sealtag[®] Aquablock

Wall penetrations in water storage basins: As mechanical barrier in basin wall penetrations filled with Seal For Life sealing materials, e.g. Stopaq[®] 2100 Aquastop, or Sealtaq[®] Aquablock

Product properties of SFL™ Mortar WR		
Colour	Grey	
Specific gravity	1.6 ± 0.2 g/cm³ at +20°C	
Mixing ratio	4 parts of SFL™ Mortar WR to 1 part of water by	
	volume	
Shrinkage	None	
Initial setting time	1 - 2 min. at +20°C	
Particle size	45 – 150 μm	
Compressive	5 MPa after 1 hour	
strength after	9 MPa after 6 hours	
curing	25 MPa after 28 days	



General order information			
Product	SFL™ Mortar WR is available in different		
		packing sizes	
	Art. Nr.:	Packing size:	
	1109	Pail 0.5 kg, 20 pails/box, 480 pails/pallet	
	1112	Pail 5 kg, 72 pails/pallet	
	1114	Pail 20 kg, 27 pails/pallet	
Handling		Handle with care, keep boxes and pails upright.	
		Consult safety data sheet for appropriate safety	
		and health measures.	
Storage		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.	

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	ction - Job preparation	Application instru	
Pipe and cable	Pipes and cables must be fastened to avoid	Wetting	Wet the wall op
fixation	lateral movements. Excessive lateral forces		bottle or a brush
	exerted to the SFL™ Mortar WR barrier may		premature or ex
	cause cracking.		from the freshly
Tools, equipment	 Personal protective gear like appropriate 	Mixing process	Small portions of
and auxiliaries	gloves, safety goggles, etc.		kneading the m
	 Masonry tools like trowels, tuck-pointing 		It is not recomm
	tools, etc.		quantities of mix
	 Pencil size piece of wood, for compacting 		have set partial
	of mortar in narrow gaps.		before all mater
Additional	 Masking tape, width preferably 50 mm. 	Mixing sequence	Sequence of mi
materials	 Clean water, free from visible and chemical 		homogenous ar
	contaminations, temperature preferably		First add the re
	+20°C or lower.		mixing vessel, t
	 Plastic sheet, e.g. PE-foil 		WR bit by bit wh
	 Slip liner in case axial movement occurs 	Mission or ung () -	lead to hard lum
	due to thermal expansion of pipes or	Mixing ratio	4 parts of Morta
	cables.		volume.
Ambient	Ambient temperature should be above freezing		Minimum Consultant
conditions	point and below +35°C during application and		Mixing time is 1
	curing. Special measures for working in winter		A 6 4 - u i - i 4 l
	conditions with cement-like materials should be		After mixing the
	adopted.		consistency.
Substrate	Temperature of all substrates, (wall inlet, pipe-		It is advised to
conditions	and cable surfaces) should be above freezing		possible in orde
	point and below +35°C during application and		water content w
	curing.		which can be us
Product	Temperature of SFL™ Mortar WR, and mixtures	Application	First fill the area
conditions	thereof, should preferably below +20°C during	Application	between cables
	application and curing. Lower temperatures		Push the mixtur
	obtains longer pot life and leads to longer setting		conduit (brick/c
	periods, while higher temperatures may cause		Make sure to a
	too fast curing.		Fill up with mixt
Surface	All surfaces must be free of oil, grease, dirt, dust		conduit.
preparation	and poorly adhering matter, such as cement		Smoothen the s
	film, paint or other.		amount of wate
	Make sure eventually present sealing materials	Removal of	Remove applied
	are removed completely from the conduit walls	masking tape	finishing applica
	prior to application of SFL™ Mortar WR.	Controlled curing	In order to mini
Axial pipe or cable	Pipes or cables might expand and shrink due to	Controlled caring	or cracking - wh
movements	temperature fluctuations, causing slight axial		ambient temper
	movements. To avoid cracking of the SFL™		surface with a s
	Mortar WR barrier, the surface of these pipes		evaporation.
	and cables should be covered with a slip liner,		старогалогі.
	allowing axial sliding of the pipes and cables	Amuliantian instru	otion Donois
	through the layer of SFL™ Mortar WR.	Application instru	
Masking	Mask surfaces not intended to be bonded with	Cracks and holes	Cracks and hole
	SFL™ Mortar WR with masking tape, e.g.		at least 10 mm
	sections of pipes and cables protruding from the		additional SFL ^T
	mortar barrier.		be done accord

Application instru	ction - Brief version
Wetting	Wet the wall opening with water, using a spray
	bottle or a brush, such in order to prevent
	premature or excessive absorption of moisture
	from the freshly placed mortar.
Mixing process	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.
Mixing sequence	Sequence of mixing is critical for obtaining an
mixing sequence	homogenous and easy to apply mortar mixture.
	First add the required amount of water to the
	mixing vessel, then gently add the SFL™ Mortar
	WR bit by bit while mixing. Incorrect mixing may
	lead to hard lumps in the mixture.
Mixing ratio	4 parts of Mortar WR to 1 part of water by
	volume.
	Mixing time is 1 minute.
	After mixing the mortar should have a pasty
	consistency.
	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.
Application	First fill the areas that are difficult to access, e.g.
	between cables and pipes.
	Push 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.
	Smoothen the surface of the Mortar using small
	amount of water and masonry tools.
Removal of	Remove applied masking tape immediately after
masking tape	finishing application of the mortar.
Controlled curing	In order to minimize the risks of improper curing
	or cracking - which might occur at higher
	ambient temperatures - cover the fresh mortar
	surface with a sheet of plastic to minimize water
	evaporation.

Information	
Documentation	Extensive information is available on our website. 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 coating system should be carried out by certified personnel.

this document.

Cracks and holes should be reamed to a width of at least 10 mm to enable proper application of additional SFL™ Mortar WR. Application should be done according to the procedure described in

