

## STOPAQ® MORTAR WR

### Product Information

**Generic type:** Unique, cementitious based rapid setting mortar to waterproof and protect concrete from water penetration of pores and capillaries. It is designed to act as an outside quick-set barrier plug on top of FN 2100.

**Product Description:** STOPAQ® Mortar WR is suited for support of STOPAQ® (FN 2100 or FN 4100) filled pipe- or cable penetrations in outside walls and floors. It virtually eliminates the water penetration through concrete. The mortar bonds to concrete and brick.

#### Features:

- Excellent hold, 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, tough waterproofing layer
- Will self-heal cracks in presence of water
- Chloride free

#### Benefits:

- Rapid water stopping
- Single component
- Stable bonding
- Does not demand special tools for application
- Easy for making cable - and pipe changes
- Works under hydrostatic pressures.
- Provides permanent and optimal safety

STOPAQ® Mortar WR comes in 500g bag

### Application examples

#### External walls

As barrier in wall Inlets below ground water level, sealed with STOPAQ® FN 2100. As waterproofing layer, covering and supporting the STOPAQ® compound seal.

- piping
- basement areas
- mines
- foundations
- sewers
- tunnel lining

### Product Properties\_STOPAQ® Mortar WR

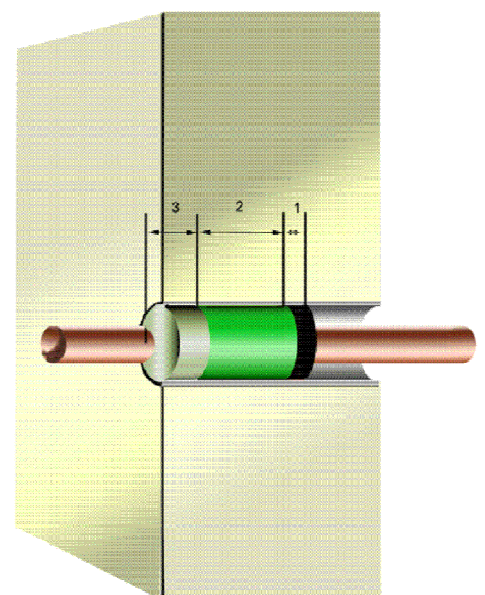
<b>Colour</b>	Gray
<b>Cured Density</b>	1,45g/cm <sup>3</sup> at 20°C
<b>Shrinkage</b>	None
<b>Solids</b>	100%
<b>PH</b>	13
<b>Initial setting time</b>	Ca. 15 minutes
<b>Particle size</b>	50-150 microns
<b>Water pressure</b>	5m
<b>Appearance</b>	Powder
<b>Compressive strength</b>	30 MPA after 28 days

### Transportation and Storage

<b>Transportation</b>	No special requirements for transportation
<b>Shelf life</b>	2 years

### General Order Information

<b>Product</b>	STOPAQ® Mortar WR is available in 500 grams sacks.
<b>Packaging</b>	20 Sacks per Box
<b>Handling</b>	Handle with Care. Keep the box upright
<b>Storage</b>	Indoor, clean and dry unopened sacks. Shelf-life 9 Months



**Application instruction\_Preparation**

**Application equipment**

- 1: Rubber gloves
- 2: Safety glasses
- 3: Mechanical or electric mixer (Only use grout mixing paddles)
- 4: Pointing trowel with straight sides and round tips
- 5: Tuck pointer for smoothening in narrow areas
- 6: Pusher-pin - pencil size - ( for compaction of mortar in narrow gaps such as between cables)

**Additional Materials**

- 1: Masking tape, 50mm wide
- 2: Ceramic paper ("slip liner"v for pipes through barriers)

**Clean water**

Only use clean, potable water, free from contamination -chemical or visible organic materials and with a temperature, minimum 3°C above the freezing point .

**Mixing ratio:**

Add water to the mixing bucket first then add the powder.

The mixing ratio's are:  
In volume: 1 part water to 5 parts powder.

Mixing time is 3-5 minutes. Partially set or lumpy material must not be used.

**Masking**

Mask sides (not bonding surfaces) and the edge and end of penetrating items with strips of 50mm wide masking tape.

**Low and high temperature application**

In cold conditions, it is recommended to use luke warm water for mixing. The materials will then reach the required setting and strength faster. Standard precautions for winter working with cement-like materials should be adopted. Do not use MORTAR WR if the temperature of the substrate or air is 1 degrees Celsius ad falling. At ambient temperature of above 35 degrees Celsius, material must be stored in the shade and cooler water should be used for mixing temperature of up to 20 degrees Celsius.

**Application instruction\_Surface preparation**

**General**

All surfaces must be free of oil, grease, dirt and poorly adhering debris, such as cement film, paint or other.

**Moving pipes & cables**

Avoid bonding STOPAQ® Mortar WR to moving pipes and cables. Wrap such items with (3mm thick) ceramic paper, allowing sliding and preventing cracking of the fire resistant seal. Fixate with a piece of duct tape.

**Application instruction\_Installation**

**Wetting the opening**

Wet down 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.

**Mixing of mortar**

Mix the mortar - powder into water. Avoid using extreme mixing ratio's: The less water used, the less the forming is required. Mix the mortar until it is homogeneous and smooth and has a consistency, easy for forming "handpacking balls". When the mixture gets stiff, it is prepared for immediate application. Since the mixture sets very rapidly prepare only amount of mortar, which could be used and applied at once.

**Filling with mortar**

Immediately place the mortar. Fill first the most difficult to reach areas (between cables and pipes). Squeeze the mortar against the sides of the opening. Always work towards the bonding surfaces. Smooth the mortar off as quickly as possible as filling the opening flush to the wall or floor. Please use finishing trowels or a gloved hand for application.

**Controlled curing**

In order to minimize the risks for cracking due to too fast curing, cover the fresh mortar surface with a sheet of plastic film.

**Application instruction\_Patching**

**Patching and repairs**

Cracks should always be reamed up to minimum 10mm width for proper repair. Clean and rough up the previously installed surface, thoroughly wet- the surface and apply the freshly mixed repair mortar.



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