

## Maleki-VM 530

All-round pouring mortar

Item-No.: 1420

Shrinkage-free fast-setting mortar for construction. Hardens fast and with high early strength.

### Technical data

<b>Early strength class</b>	class C $\geq 10$ N/mm <sup>2</sup>	<b>Mixing ratio</b>	max. 4.0 – 4.5 l water per 25 kg powder
<b>Compressive strength</b>		<b>Flexural strength</b>	
1 day	$\geq 15$ N/mm <sup>2</sup>	1 day	$\geq 4.5$ N/mm <sup>2</sup>
7 days	$\geq 30$ N/mm <sup>2</sup>	7 days	$\geq 8.5$ N/mm <sup>2</sup>
28 days	$\geq 40$ N/mm <sup>2</sup>	28 days	$\geq 11$ N/mm <sup>2</sup>
<b>Processing temperature</b>	min. +5 °C, max. +35 °C	<b>Processing time at 20°C</b>	approx. 15 min
<b>Grain</b>	0 – 2 mm	<b>Consumption</b>	approx. 2.0 kg per liter cavity
<b>Loadability</b>	after 30 min	<b>Density</b>	
		Bulk density	approx. 1.3 kg/dm <sup>3</sup>
		Fresh mortar density	approx. 2.0 kg/dm <sup>3</sup>

### Properties

- Eco-Binder technology
- environmentally friendly
- mineral
- VOC – and APEO-free
- low in chromate according to TRGS 613
- fast curing and tension-relieved
- highly resistant to mechanical stress
- waterproof up to 1.5 bar
- early loadable, high final strength
- good flowability
- easy application
- also processible by machine

### Range of usage

- for indoor and outdoor use
- repairs on mineral surfaces in dry, damp and permanently wet conditions
- for under filling and encapsulation of bolts, foundation for machinery, crane rails, pillars and other steel constructions
- filling of construction joints between precast or precast slabs, basements ceiling tiles and soles
- repairs on defects in concrete, screed, masonry, natural and artificial stones
- force-locked crack repair
- installation and repair of manhole rings and manhole can be easily covered by pouring
- quick creation of small point foundations
- suitable for work under time constraint

### Preparation of substrate

Ensure that cavities, joint and crack edges are free of dust, cement, gypsum, bulk or clinging dirt. Edges should be free of oil and grease. Use Maleki-TG 110 on highly absorbent substrates. Please refer to the technical data sheet of Maleki-TG 110 for more information.

### Mixing and application

#### Cavities and ruptures

Mix the material by using a mixing machine. First, add 4.5 – 5.5 liters of water per 25 kg powder material into the mixing container. Then, pour Maleki-VM 530 inside while stirring. For applications with a hand-held mixer the Collomix mixing paddle DLX 152 HF is recommended. By using the respective mixing paddle a proper thread adapter must be used if necessary. For mixing of partial quantities in smaller containers the mixing paddle DLX 90 S for drilling machines is recommended. The material has to be mixed intensely for 2 minutes. Remove adhering powder residues from the mixing container.

Mix again until a uniform, lump-free mortar is formed. After mixing pour Maleki-VM 530 into prepared cavities or ruptures without any interruptions and spread evenly. The edges of the fresh mortar can be treated with a damp sponge after the end of the processing time to ensure uniform transitions to the surround material. Possibly used shuttering formwork should be airtight and non-absorbent. The fresh surfaces can be re-coated after 30 – 60 minutes (at 20°C). Depending on ambient temperature and relative humidity the specified waiting time may vary.

On highly absorbent substrates apply Maleki-TG 110 as primer. Observe drying times. Please refer to the technical data sheet of Maleki-TG 10 for more information.

For deeper ruptures Maleki-VM 530 can be mixed with coarse quartz sand. Therefore, 12.5 kg of Maleki-VM 530 are mixed with 2.5 – 2.75 L of water. The material is mixed according to

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described mixing procedure. After dissolution of all powder particles mix in 12.5 kg of quartz sand (grain size: 1 – 4 mm) while stirring. Total mixing time is about 2 minutes.

## **Force-locked crack repair (Crack width: at least 3 mm)**

For filling of cracks with a crack width at least 3 mm Maleki-VM 530 is mixed with 5.5 L of water per 25 kg powder material. The material is mixed according to described mixing procedure.

## **Tools and cleaning**

Hand-held mixer, stirrer, trowel, Sponge.

All equipment should be washed clean and dried before and after application.

## **Packaging and shelf-life**

25 kg paper bag

Original packing is storable for 6 months in dry and controlled temperate areas (not below 0 °C, recommended 10 – 25 °C). Reseal opened containers immediately and use within a very short time.

## **Safety notes**

Maleki-VM 530 contains cement and reacts alkaline with moisture/water. Avoid inhaling dust when opening packaging. Protect skin and eyes during the mixing process.

Please refer to the Material Safety Data Sheet which can be requested on [www.malekigmbh.com](http://www.malekigmbh.com) for further information on safety during transportation, storage, handling and disposal. Follow instructions on the packaging.

## **Notes**

Do not use mortar under + 5 °C or more than + 35°C. Do not use on frozen surfaces, frost, very high temperatures and wind or in connection with heating- or warm-water tubes or even different surface temperatures like solar irradiation.

The content of this technical data sheet corresponds to the latest development and our applications experience. All information is based on ideal conditions and therefore does not apply for every application purpose. Due to different materials, substrates and different actual site conditions no warranty is given for the customer's application. In particular, we assume no liability based on this information or any verbal statements. The only exception is when we can be blamed for the case of intent or gross negligence. In that case the customer has to prove that he has transmitted all required information completely and in a timely manner for a proper and promising evaluation by Maleki GmbH. Any further details regarding the application of our products have to be confirmed in writing by Maleki GmbH. The customer must test the product's suitability for the intended application and purpose. We reserve the right to change the product specifications due to the ongoing development. Apart from that our general terms and conditions are valid. This data sheet supersedes all earlier technical data on this product. The technical data sheet can be requested on [www.malekigmbh.com](http://www.malekigmbh.com).