

### Impermeable, flexible grout mortar

Standard masonry mortar M10 acc. EN 998-2

- with good adhesion characteristics on slab edges
- compressive strength:  $\geq 10 \text{ N/mm}^2$  (7d), approx.  $15 \text{ N/mm}^2$  (28d)



### APPLICATIONS

- particularly suitable for wide joints up to 5 cm, e.g. for polygonal slabs
- suitable for use-category N1 according to ZTV Wegebau (extra technical requirements for road building)
- for surfaces for mainly pedestrian use
- for preventing lateral cracks on particularly wide joints
- for neatly grouting natural stone slabs and artificial stone slabs
- for the decorative design of terraces, squares and paths

### PROPERTIES

- impermeable after hardening
- tempered for better bonding
- good workability
- prevents the risk of lime efflorescence
- effective in preventing weed growth in the joints
- frost resistant

### COLOURS

- grey/beige

### COMPOSITION

- cement in accordance with DIN EN 197-1
- trass in accordance with DIN 51043
- graded silica sand according to DIN EN 13139
- additives for regulating and improving workability and product properties

### SUBSTRATE

- |                         |  |
|-------------------------|--|
| <b>Properties/tests</b> | <ul style="list-style-type: none"><li>■ Minimum joint width: 10 mm</li><li>■ for continuous joints up to 35 mm, in partial areas up to 50 mm</li></ul>   |
| <b>Pretreatment</b>     | <ul style="list-style-type: none"><li>■ The required joint depth should be created by blowing or scoring out the joint. The paving surface should then be cleaned dry.</li><li>■ Depending on the absorption behaviour the paving surface should be wetted thoroughly several times. However, there should be no standing water in the joints when applying the paving stone grout mortar.</li></ul> |

### PROCESSING

- |  |   |
|--|---|
| <b>Temperature</b>                       | <ul style="list-style-type: none"> <li>Do not process or allow to dry out at air, material or substrate temperatures below +5°C, or if there is a risk of exposure to night frost, or at temperatures above +30°C, or in direct sunlight, or on heated up surfaces, and/or in windy conditions.</li> </ul>  |
| <b>Mixing / Preparation / Processing</b> | <ul style="list-style-type: none"> <li>When mixing manually, first place the quantity of water specified in the technical data in a clean container and then sprinkle in dry mortar. Use clean tap water.</li> <li>Use a suitable agitator to mix the material until smooth and free of lumps. Leave to develop for a moment and then mix again.</li> <li>Working consistency: weakly plastic</li> <li>When machine-processing: Adjust the amount of water accordingly to obtain a workable consistency.</li> <li>Do not mix with other products and/or other substances.</li> </ul>                          |
| <b>Processing</b>                        | <ul style="list-style-type: none"> <li>Introduce the grout mortar into the joints manually with a jointing iron or a mortar gun so that the joints are filled completely, densely and deeply.</li> <li>Only the smallest possible amounts may remain on the stone surface, otherwise cleaning the surface becomes more difficult.</li> <li>The hardening level is to be tested by pressing one's thumb in.</li> <li>Depending on the slabs used, the installation area is to be cleaned several times with a clean sponge as soon as the joint surface has started to dry after approx. 1-2 hours.</li> </ul> |
| <b>Processing / Working time</b>         | <ul style="list-style-type: none"> <li>approx. 2 hours</li> <li>The stated times apply for a temperature of +20°C and relative humidity of 65%.</li> <li>The processing time will be extended at low temperatures and/or high air humidity and shortened at high temperatures and/or low air humidity.</li> <li>Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.</li> </ul>  |
| <b>Drying / Hardening</b>                | <ul style="list-style-type: none"> <li>Protect the fresh mortar from drying out too quickly and from unfavourable weather conditions such as frost, draughts, direct sunlight and direct exposure to driving rain if necessary by hanging with foil.</li> <li>The completed areas can generally be walked on by pedestrians after approx. 24 hours in dry weather.</li> <li>Timings relate to +20°C and 65% relative humidity.</li> <li>High pressure washers can be used after 3-4 weeks.</li> </ul>   |
| <b>Cleaning the tools</b>                | <ul style="list-style-type: none"> <li>Clean all tools and equipment with water immediately after use.</li> </ul>   |

#### Notes

### PACKAGING

- 25 kg/sack

### STORAGE

- Store sacks appropriately and in dry conditions on pallets.

### QUANTITY REQUIRED / YIELD

- consumption: depending on slab dimensions and joint width
- yield: app. 16 l fresh mortar per 25 kg/sack

### TECHNICAL DATA

<b>Processing consistency</b>	slightly plastic
<b>Grain</b>	0 – 4 mm
<b>Compressive strength</b>	≥ 15 N/mm <sup>2</sup>
<b>Joint width</b>	10 – 30 mm in continuous joints, in partial areas up to 50 mm
<b>Processing time</b>	approx. 2 hours
<b>Walkability</b>	after approx. 24 hours
<b>Resilience</b>	after approx. 28 days
<b>Colour</b>	grey

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

### SAFETY AND DISPOSAL INSTRUCTIONS

<b>Safety</b>	<ul style="list-style-type: none"> <li>■ This product produces an alkaline reaction when it comes into contact with moisture/water. Therefore ensure that skin and eyes are protected. If it should come into contact with the skin or eyes, rinse them thoroughly with water. See a doctor immediately if it comes into contact with the eyes.</li> <li>■ Further information can be found in the safety data sheet at <a href="http://www.tubag.de">www.tubag.de</a>.</li> </ul>
<b>GISCODE</b>	<ul style="list-style-type: none"> <li>■ ZP1 (products containing cement, low-chromate)</li> </ul>
<b>Disposal</b>	<ul style="list-style-type: none"> <li>■ Completely empty and recycle the packaging.</li> <li>■ Dispose of the material in accordance with the official regulations.</li> <li>■ Dispose of hardened product in accordance with the local regulations. Do not allow to enter the sewer system. Dispose of the hardened product in the same way as concrete waste and slurries. Waste code according to the Ordinance on the European Waste Catalogue depending on the origin: 17 01 01 (concrete) or 10 13 14 (concreteste and concrete slurries).</li> </ul>

### GENERAL INFORMATION

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. Since natural raw materials are used, the values and properties described may vary somewhat. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.