



ROMPOX® - TRASS-BED-COMPOUND

Frost resistant drainage mortar

ROMPOX® - TRASS-BED-COMPOUND is a binding agent with trass minerals for the production of a highly water permeable bedding mortar. The compound reduces efflorescence during the laying of natural stone cobbles, natural and concrete stone slabs as well as brick stones and ceramic tiles on a frost resistant base course outdoors. The compound is mixed earth-moist in the volume ratio 1:4 with filler, e.g. rolling gravel or grit. To use our system guarantee (RSG), the filler to be used can be sent to ROMEX® for a single certification.

Note on the RSG

To obtain the ROMEX® SYSTEM GUARANTEE, rolled gravel or chippings of 2–5 mm, 2–8 mm, 4–8 mm or 5–8 mm | 1/16"–1/4", 1/16"–3/8", 1/8"–3/8" or 1/4"–3/8" grain size can be used, which have been tested and certified by the ROMEX® laboratory before use.

Properties

- from 3 cm | 1 3/16" layer thickness
- highly water permeable
- prevents frost damage
- lessens waterlogging and discolouration
- frost and de-icing salt resistant
- compressive strength > 25 N/mm²
(Higher compressive strengths possible by changing the mixing ratio)
- application temperature from +5 °C



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APPLICATION

Construction site requirements: The subsurface needs to be made load bearing, firm and water permeable. Water impermeable load distribution layers (screeds), such as areas with house utility connections as well as any slab coverings that are laid, need to have a slope of at least 1,5–3,0%. Any water that gathers needs to be drained with corresponding drainage measures. In case of any watertight outdoor areas and levels where water flows and partial puddles form, it is recommended installing a suitable capillary-breaking drainage mat.

Recommended mixing ratio:

1 volume part ROMPOX® - TRASS-BED-COMPOUND

Example: 10 litres | 2.6 gal

4 volume parts filler material (i.e. rolled grit/gravel 4–8 mm) | $\frac{1}{8}'' - \frac{3}{8}''$

Example: 40 litres | 10.6 gal

For compressive strengths >25 N: Mixing ratio 1:3

Mixing: Mix ROMPOX® - TRASS-BED-COMPOUND in a ratio of 1:4 with filler material (i.e. rolled grit/gravel 4–8 mm | $\frac{1}{8}'' - \frac{3}{8}''$) so that it is earth damp, mixing time 2–3 minutes. Water requirement approx. 11 litres | 2.9 gal of cool, clean water per used 25 kg ROMPOX® - TRASS-BED-COMPOUND. To do this, mix ROMPOX® - TRASS-BED-COMPOUND with filler material and first add approx. 9 litres | 2.4 gal of water. Keep adding water to the mix until the mortar mixture is slightly shiny and can be rolled into a firm ball. Mix using a pug mill mixer or gravity mixer. For smaller amounts, mixing can be done in a wheelbarrow or mortar tub. After mixing, the mortar is ready for immediate use. Where possible, use the entire container, otherwise weigh the exact amounts needed.

Application: The thickness of the bedding mortar, should generally be 4–10 cm | $1\frac{1}{2}'' - 4''$ deep depending on expected loads (load classification / usage category) and stone. (Exception is mixed construction method for usage category N2 of ZTV path construction with a thickness of ≥ 10 cm | $\geq 4''$.) Lay the ready mixed bedding mortar loosely. The connection elements to be used are pre-treated with ROMPOX® - ADHESION ELUTRIANT and laid at the correct height and hammer-hard into their final position. When filling the joints, at least 3 cm | $1\frac{1}{4}''$ joint depth from the top edge of the stone is required, in case of traffic loads at least $\frac{2}{3}$ the height of the stone.

Subsequent treatment: After laying, protect the surface with a sheet. After 24 hours lightly spray with water and cover again for 48 hours. Until the bedding mortar has reached it's full strength, the surface should not be used. In case of bad weather conditions, this may take a longer time.

Important information: After 48–72 hours, depending on weather and mortar consistency, jointing using ROMPOX® pavement jointing mortar can be carried out. After 7 days the surface can be walked on, after 14 days it can be driven on by vehicles up to 3,5t (private surface), after 28 days it is fully load bearing. In general all connecting elements should be treated with ROMPOX® - ADHESION ELUTRIANT before laying onto the bedding mortar.

TECHNICAL DATA

Application time	approx. 1 hour at 20 °C 68 °F application temperature
Application temperature	5–25 °C 41–77 °F, do not lay onto frozen ground
Material requirement	approx. 18,5 kg 40.8 lbs of ready mixed bedding mortar per cm layer thickness/m ² ± approx. 3,7 kg 8.2 lbs ROMPOX® - TRASS-BED-COMPOUND
Water addition	approx. 11 litres 42.9 gal of water per 25 kg 55 lbs bag/mortar mixture
Compressive strength	> 15–25 N/mm ² 2 175–3 626 psi after 28 days (dependent on filler material)
Water permeability coefficient*	$\geq 14,2 \times 10^{-5}$ m/sec 20.1 iph (dependent on filler material)
Low in chromate	yes
Storage life	12 months
Storage	dry and in original sealed container

Volume



The volume (V) is the spatial content of a geometric body. The simplest method of volume determination is the so-called "leaching" method: the body is filled with sand or water, the amount of which is then determined in a known vessel; thus, the volume of their interior can be determined in vessels. In practice, fill the 25 kg bag ROMPOX® - TRASS-BED-COMPOUND into a bucket and mark the fill level with a marker. Rolled gravel / grit is then filled up to this mark and you have achieved equal volume of the materials.



GENERAL NOTES

Limitation of use, use category and load classes
Indicates the load-bearing capacity of a sub-structure and superstructure manufactured according to German standards in accordance with RStO 12, ZTV-Wegebau, DIN 18318. These are terms from German standards, regulations and guidelines for road construction, civil engineering and pavement construction.

Filler materials

All filler materials are natural products which are subject to natural colour deviations.

Water permeability coefficient

Water permeable according to „Leaflet on surfaces that allow for seepage“ (MVV), Issue 2013.

General notes

The information printed in this brochure is based on experiential values and the current levels of knowledge in science and practice, however they are not binding and have no legal force. All previous information becomes invalid with the issue of this brochure. Images similar. Effective May 2022. We reserve the right to make changes.

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