

Varistone Z



VARISTONE®

Jointing Mortar for Heavily Loaded Decorative Paving (also usable in rainy conditions)

Product Application:

VARISTONE Z is a two-component, durable, permeable jointing mortar based on epoxy resin, designed for jointing natural stone paving, concrete paving, tile, and brick floors on terraces, garden paths, driveways, access roads, and public squares. VARISTONE Z is specifically developed to handle medium-to-heavy traffic loads, including motorbikes, cars, minibuses, and light commercial vehicles.

The minimum joint width must be 5 mm, and the minimum joint depth must be 30 mm. This mortar is only suitable for paving materials as listed above with a maximum size of 20 x 20 cm.

- VARISTONE Z offers high compressive strength and durable permeability, thanks to the specific structural composition of epoxy resin and aggregate additives.
- The two-component formulation allows for quick application, enabling the economical creation of durable joints between paving stones.
- The mortar is self-levelling and self-compacting.
- VARISTONE Z can be applied in rainy conditions and at low temperatures.
- After application, the pavement can be walked on after six hours.
- The range includes three contemporary colours with a natural appearance. VARISTONE Z is available in: natural, stone grey, and basalt.
- Once hardened, the mortar is resistant to sweeping and cleaning machines.
- VARISTONE Z reduces the growth of weeds and burrowing pests in the joints.
- The risk of tripping due to loose stones is minimised, improving accessibility for wheelchairs, walkers, and people with limited mobility.
- The mortar is resistant to frost and de-icing salt.

The joint surface only needs to be cleaned with clean water, e.g., using a pressure washer. Environmentally harmful weed killers are unnecessary.

Technical Product Information:

Conditions:

Stable substrate. The construction must suit the anticipated (traffic) loads.

- For pedestrian traffic, laying stones or tiles on a sand or crushed stone bed is sufficient.
- For motor vehicle loads, stones or tiles must be laid on a mortar or concrete bed, depending on the expected loads. Jointing mortars cannot compensate for subsidence in the substrate. Joint width: minimum 5 mm, joint depth: 30 mm. For joint widths greater than 15 mm, the depth should be at least twice the joint width. Object and outdoor temperature: minimum 3 °C.

Required Tools:

Forced-action mixer or drill (minimum 800 W) with a mixing paddle, mixing tub, water hose with spray nozzle, special rubber squeegee and coconut broom.

Preparation:

Thoroughly clean the surface to be jointed, removing all debris.

Wetting:

Saturate the surface with water.

Mixing the Jointing Mortar:

Mix the mineral binder mixture and separately packed hardener into a homogeneous mass using a forced-action mixer or drill with a mixing paddle.



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Filling the Joints:

Use a special rubber squeegee to work the mortar intensively into the joints immediately. Working time is approximately five minutes at 20 °C. Higher temperatures reduce, and lower temperatures extend the working time.

Finishing:

After about 5 minutes at 20°C, remove any excess damp mortar completely from the surface using a damp broom.

At temperatures above 25 °C, wipe away excess after approximately one minute.

If needed, clean the surface with a water spray from about 25 cm away.

Avoid loading newly jointed areas for at least six hours.

During the initial period, a thin binder film will remain on the surface, enhancing the texture of the top layer. This film will disappear after several months of exposure to weather conditions. In sheltered areas, the film will wear away through mechanical abrasion. It is essential to ensure the mortar is in full contact with the pavement across the entire surface during grouting.

Experience shows that certain stone types may exhibit unique optical effects with residual binder layers on the surface. It is therefore advisable to create a test area when working with unfamiliar stone types. For uncured material, clean tools with water.

Required Quantities:

The quantities indicated in the table are indicative and based on flat, uniformly laid paving stones. Variations in the natural shape of stones and laying patterns may result in deviations.
Joint depth 30 mm.

	Dimensions in mm		Consumption kg/m ² by Joint Width		
	width	length	5 mm	10 mm	15 mm
Mosaic paving	40	40	11.3	20.4	27.8
	50	50	9.3	17.0	23.5
	40	60	9.6	17.5	24.1
Small paving	100	120	4.5	8.6	12.3
	100	100	4.9	9.3	13.3
	80	100	5.4	10.3	14.7
	60	80	6.9	13.0	18.3
Big paving	160	180	2.9	5.7	8.3
	140	180	3.1	6.1	8.9
	120	180	3.6	6.9	10.0

Material Properties:

Density:	1.70 g/cm ³
Compressive Strength:	ca. 25.0 N/mm ²
Flexural Strength:	ca. 10.0 N/mm ²
Elasticity Modulus:	5500 N/mm ²
Water Permeability:	At 20% joint surface, Approx.. 1.8 ltr/m ² /min
Shelf Life:	1 year, in dry, frost-free storage in the original unopened packaging



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Safety Instructions / Waste Disposal:

- Avoid contact with skin; wear safety goggles and gloves.
- Unmixed material must be disposed of as chemical waste.
- Mixed and hardened product is inert and does not require special disposal.
- Product information is available on the packaging and in the safety data sheets.
- May cause skin sensitivity upon contact.
- Wash immediately with plenty of water and soap if contact occurs.

No legal liability can be derived from the instructions in this product information or verbal advice unless expressly confirmed in writing. Upon the publication of this product information, all previous data sheets become void.