



bengusan-MZ

A mineral-based lightweight plaster suitable for all kinds of building fabric. Cement-bonded, vapor permeable, readymixed dry mortar in accordance with DIN EE 998-1 for all kinds of building fabric.

System / areas of application

benqusan-MZ is a hand plaster particularly well suited for application on damp and salt-loaded (damaged) masonry, in historical and new buildings for both interior and exterior walls. With benqusan-MZ functional mortar for damp and salt-loaded masonry, all forms of chemical pretreatment (e.g. silicification, impregnation, salt conversion, etc.) become superfluous.

A product for functional layer mortar. When used as a wall-base plaster, areas in contact with the earth should be permanently protected from moisture penetration

## Technical specification

Grain size	0-1.0 mm
Entrained air	>40 Vol%
Hardened mortar unit weight	< 0.780 kg/dm³
Workability	< 3,0 cm
Water vapor diffusion resistance factor $\boldsymbol{\mu}$	<10
Fire resistance	A1

## Substrate / preparation

Completely remove damaged plaster up to at least one meter over the measurable dampness zone and scrape away pointing to a depth of approx. 2 cm. The substrate must be sufficiently sound and stable (remove loose masonry, dirt and dust); missing bricks and stones must be replaced. Under no circumstances should gypsum be used to fasten electrical cables and the likes; all gypsum remnants must be completely removed.

Poorly cleaned and prepared substrates, e.g. mortar remnants, dirt and dust, can lead to hollow cavities and cracks once the plaster hardens.

## Mixing

- 1. Fill the required (clean) water into the mixer
- 2. Add the bengusan-MZ ready-mixed dry mortar
- $3. \, Adhere \, strictly \, to \, the \, prescribed \, mixing \, time \, of \, \, 8-10 \, minutes \, \, (depending \, on \, the \, type \, of \, mixer \, and \, mixing \, intensity)$

Bond and key layer: 6.0 – 7.0 liters of water Functional layer: 5.0 – 6.0 liters of water

Use only smooth, clean mixers: free-fall mixers with a capacity of at least 130 liters, single agitator up to 15 liters bucket size, fixed double agitator on a rotating plate with mortar tub capacity of at least 50 liters, and to a limited extent mortar pumps. Do not use continuous mixers.

It is essential that the prescribed mixing time is observed.

Do not use chemical additives. Observe mixing instructions on the sack.

Ideal weight of the fresh mortar: approx. 800 – 850 g per liter





Application	Wet an area of wall corresponding to one batch of mortar to the point of saturation. Allow 24 hours for the scratch coat to set before applying the functional layer or other layers. Longer setting periods are also possible.	
Bond and key layer	Use benqusan-MZ ready-mixed mortar. Apply bond and key coat forcefully over the entire surface (approx. 5 – 8 mm) to ensure it keys well into the wall, providing a good bond for the functional coat. Make sure the substrate is properly wetted. Mix to normal consistency and observe the prescribed mixing time. Only then add water to achieve the desired consistency.	
Functional layer	Apply the functional coat in one or more layers of up to 20 mm per working step and day. For leveling coats, scratch the surface to provide a key for the next layer to adhere to. Smooth the coat in a single pass – do not rub in repeated passes.	
Paint/ final coat	Use only paints with very good vapor permeability.  Add one 200 g pack of benqusan-PUR to 25 – 30 kg of commercially available cement-lime-based finishing or structural render and apply a thin layer of up to 3 mm.	
Yield	Yield per 25 kg sack of benqusan-MZ : approx. 38 liters of fresh mortar Coverage per 25 kg sack of benqusan-MZ : approx. 1.90 m² (20 mm layer thickness) Consumption: approx. 20.0 kg/m² for 20 mm layer thickness	
Packing unit / storage	benqusan-MZ comes in 25 kg sacks (40 sacks per EU palette = 1 000 kg). Store benqusan-MZ ready-mixed mortar in a dry place and use within 12 months.	
Quality	Ready-mixed benqusan-MZ mortar is manufactured in compliance with DIN EN 998-1 and is subject to strict inhouse inspections and functional tests in accordance with DIN EN 998-1, as well as independent third party monitoring by recognized institutes.	
Safety	The cement-bonded, ready-mixed benqusan-MZ mortar is alkaline. Protect eyes, sensitive skin and wounds to avoid chemical burns. benqusan-MZ is ecologically safe and contains no harmful substances.	

Notice: Do not add chemical additives or lime to benqusan-MZ ready-mixed mortar for damp and salt-loaded walls. On strongly absorbing substrates and/or too fast drying from draft, sunlight, heating or wind, dampen the applied plaster as required. Not suitable for use on walls in which the render is exposed to pressing water and/or seepage water. innovative building concept GmbH & Co. KG assumes no product warranty unless the respective processing instructions are followed. In addition to our processing instructions, the generally accepted rules of building technology according to the state of the art must be adhered to at all times. They must be adapted to the special needs and conditions of the project at hand. All representations made in this product data sheet result from extensive in-house and independent third party testing and extensive, longterm experience. This datasheet supersedes all previously published datasheets. We reserve the right to make technical changes in the context of further developments and product improvements. Recommendations by any employee of ibc that deviate from information in this data sheet shall be deemed valid only if provided in written form.