



## SINGLE COMPONENT BEDDING MORTAR (COMPOSITION) FOR CONVENTIONAL USE

### Characteristic product properties

- Reduced water absorption.
- Layer thickness: 10-50 mm.
- Also suitable for large format ceramic tiles and underfloor heating.
- Can be applied to walls and floors.
- For indoor and outdoor use.

### Applications

The mortar is intended for laying frost resistant, low porosity, solid ceramic tiles, in the conventional way, on surfaces that are not subject to heavy use and if it is not possible to use adhesive, as well as wall surfaces/floors that are not fully level in some exposed, outdoor places. Ceramic tiles with a porous back must be immersed in water. After any excess water has dripped away, the tiles are ready for use. Suitable for indoor and outdoor use. Outdoor use: it is necessary to choose the reflective surface and colour of the tile so that, in hot weather and direct sunlight, the temperature does not exceed 70° C. Example of where it can be used: swimming pools.

Caution: Do not use DBW omnicem as a powder tile adhesive.

### Appropriate surfaces

- Brick
- Concrete
- Concrete blocks
- Sand-limestone (only interior)
- Cement screed
- Ceramic interior bricks

For information concerning the maximum moisture content and age of the relevant surface, please see "General instructions for surfaces."

### Other products/specific applications

- In standard situations, on surfaces that are not subject to heavy use: DB (TRAS) omnicem.
- Natural stone, if applied in thicker layers: DB FLEX omnicem.
- For levelling with 90 GR omnimix and tiling.

### Preparing the surface

- The surface must be made from stone and visibly clean, free of grease and sufficiently stable.
- When using on walls: begin by coating the smooth concrete with an adhesive slurry based on WD+ omnibind.
- Start by treating all surfaces that are absorbent of very powdery, using TP omnibind.

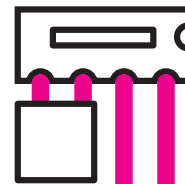
### Instructions for application

- Mix with approx. 3 litres of clean running water per 25 kg.
- First mix gently using a trowel, then combine in the mixer. Adjust the amount of water depending on the desired working consistency.
- Ceramic tiles with porous backs must be immersed in water. After any excess water has dripped away, the tiles are ready to use.
- Do not use at temperatures below 5° C (ambient and surface temperature).
- Protect the fresh mixture against bad weather conditions and sunlight.
- The maximum expansion distance is 4 metres.
- The width of the expansion joint must be selected according to the anticipated temperature differences and thermal expansion coefficient of the construction material.
- As undesirable efflorescence and colour differences may appear when the grouting mortar dries, you must ensure that the surface is dry before sealing the joints.
- Grouting can take place at temperatures above 5° C (ambient and surface temperature).
- Once again, due to the colour, we recommend that you avoid grouting at temperatures below 10° C.

For further details about application and expansion, please refer to "General instructions for application and information on powder tile adhesives".

### Damp places





#### Consumption

- Different tile surfaces and sizes influence consumption.
- When hardened, the mortar has a density of 1816 kg per m<sup>3</sup>.
- Its theoretical consumption is approx. 1.6 kg per m<sup>2</sup> and per mm of layer thickness.  
You can calculate the consumption of bedding mortars at [www.omnicol.eu](http://www.omnicol.eu).

#### Product composition

DBW omnicem is a silicone-based mortar based on pure Portland cement, additives and carefully selected granulates.

#### Technical properties

- Supplied in the form of : powder
- Colour : grey
- Application time : maximum 2 hours
- Open time : min. 20 minutes in compliance with EN 1346
- Waiting time : none
- Curing time : at 18-20° C, the floor will be walkable within 2-4 hours.  
Lower temperatures delay curing.  
Depending on the layer thickness and conditions, the floor covering can be applied after approx. 3 hours. Parquet, cork or linoleum can only be laid after 24 hours.
- Max. layer thickness : 50 mm
- Hardening : as a result of drying, polymerisation and hydraulic curing
- Adhesion :  $\geq 0.5$  N/mm<sup>2</sup> in compliance with EN 1348
- Water resistance : yes, adhesion  $\geq 0.5$  N/mm<sup>2</sup> in compliance with EN 1348
- Frost resistance :  $\geq 0.5$  N/mm<sup>2</sup> in compliance with EN 1348
- Min. / max. temperature : -15° C/ +70° C (occasionally)
- Heat ageing :  $\geq 0.5$  N/mm<sup>2</sup> in compliance with EN 1348

#### Packaging

- Available in strong multilayer paper bags, which are sewn and secured using adhesive, with a net content of 25 kg.
- On request, it is available in silos or big bags for large-scale projects.

#### Storage and shelf life

- For storage, we recommend that you use a dry and sheltered area, as the powder is sensitive to moisture.
- Keeps for 12 months in its original sealed packaging.

#### Health and Safety

DBW omnicem contains pure Portland cement. More detailed information on safety when handling cement-based products is available on request.

*This technical data is based on many years of practical experience and laboratory research. We cannot be held liable for the work produced in accordance with our systems since factors on which we cannot make an assessment or influence also determine the final result. We guarantee that this product is always supplied in a quality that remains the same. If you have any doubts, we recommend performing tests yourself. See [www.omnicol.eu](http://www.omnicol.eu) for the most recent version of this TDS.*