



## FLEXIBLE, FAST-HARDENING MORTAR FOR APPLYING THICK LAYERS

### Characteristic product properties

- Suitable for rapid delivery and use.
- For (uncalibrated) natural stone and (large format) ceramic tiles.
- On underfloor heating, concrete and old tiles.
- Can also be used in the traditional way.
- Layer thickness: up to 40 mm.
- For indoor and outdoor use.
- Classified in compliance with EN 12004: C2F.

### Applications

Fast-hardening, white powder tile adhesive for all ceramic floor and wall tiles, including tiles with under 0.2% porosity, natural stone tiles, composite marble tiles, composite cement tiles and bricks with a short delivery time. Suitable for application in thicker layers, wherever it is not possible to use paste or powder tile adhesives, such as non-level wall surfaces or uncalibrated natural stone (different thicknesses). The mortar is suitable for indoor and outdoor use, without any problems. It can be used as an adhesive on “stress bearing” and “non-stress bearing” surfaces. Suitable for laying glass construction blocks. Examples of applications: damp places, doorsteps, shopping centres, public and industrial spaces, façades and patios. If a special method is used to apply the adhesive, it is also suitable for making repairs under water!

### Appropriate surfaces

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>■ Anhydrite</li> <li>■ Asphalt</li> <li>■ Brick</li> <li>■ Existing tiles</li> <li>■ Concrete</li> <li>■ Concrete blocks</li> <li>■ Bitumen with slate chippings</li> <li>■ Cellular concrete (interior)</li> <li>■ Cement coating</li> <li>■ Cement screed</li> <li>■ Cement screed with underfloor heating</li> <li>■ Ditra matting</li> <li>■ Electric underfloor heating</li> <li>■ Epoxy coating</li> <li>■ Plasterboard panel</li> <li>■ Plaster coating</li> <li>■ Plaster blocks</li> <li>■ Plasterboard</li> </ul> | <ul style="list-style-type: none"> <li>■ Approved cement-based board</li> <li>■ Lime-cement coating</li> <li>■ Sand-limestone (interior)</li> <li>■ Ceramic interior bricks</li> <li>■ Cork</li> <li>■ Linoleum</li> <li>■ O-BOARD</li> <li>■ WD / SC / SR omnimat decoupling membranes</li> <li>■ Polyester (glass fibre)</li> <li>■ Decorative coating</li> <li>■ Silicate board</li> <li>■ Stone carpet</li> <li>■ Paint</li> <li>■ Rigid quality vinyl carpet (PVC)</li> <li>■ Wall heating</li> <li>■ Wedi or Lux</li> </ul> |
|--|---|

For specific details, please refer to our “General instructions for surfaces.”

### Other products/specific applications

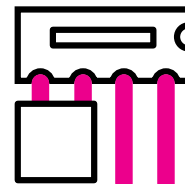
- In standard situations, on surfaces that are not subject to heavy use: white DB TRAS omnigem.
- For normal delivery: DB FLEX omnigem.

### Preparing the surface

- The surface must be stable, resistant and free of oil, grease, dirt and dust.
  - Cleaning: this depends on the specific situation, but should include degreasing prior to laying “tile on tile”, blasting and/or sanding for concrete applied using a helicopter or greasy surfaces.
  - Start by treating all surfaces that are absorbent, smooth, sealed, compact or powdery, using Omnibind:
    - TP = for general use
    - TPW = waterproof (walls)
    - COAT = waterproof (walls and floors)
    - AD = on anhydrite
    - ZR = smooth and closed surfaces
  - Care should be taken with self-levelling anhydrite screeds! Remove any layers of laitance (by sanding) and check the moisture content (max. 0.5 % in weight).
  - Take care with existing cracks in the surface, which must be examined closely before laying the tiles.
- For further details about how to prepare the surface, see our “Preparing the surface” sheet.

### Fast hardening





### Instructions for application

- Prepare with clean running water, according to the following proportions: 6 litres of water per 25 kg of powder.
- Start by pouring the water into the pot before adding the powder.
- Combine using a mixer for 4 minutes (minimum) until you obtain a homogeneous mass without any lumps.
- It may be necessary to mix the adhesive for slightly longer before use. You must not add water to make the adhesive workable again.
- Apply evenly using an adhesive comb with the appropriate toothing, a spatula or a trowel.
- Lay the tiles within 10 minutes.
- Press down firmly on the tiles, while laying them on the adhesive bed using a sliding movement.
- Make any necessary corrections within 5 minutes.

For further details, please refer to “General instructions for application and information on powder tile adhesives.”

### Consumption

Approx 1,5 kg per m<sup>2</sup> and per mm layer thickness. You can calculate the consumption of bedding mortars at [www.omnicol.eu](http://www.omnicol.eu).

### Product composition

DB FLEX R omnicem is a highly modified synthetic adhesive, based on aluminium cement with charges and light adjuvants, in order to increase adhesion.

### Technical properties

- Supplied in the form of : powder
- Colour : white
- CE conformity : C2F in compliance with EN 12004
- Application time at 20 °C : maximum 30 minutes
- Open time : min. 10 minutes in compliance with EN 1346
- Waiting time : none
- Maximum layer thickness : 40 mm
- Curing time : approx. 2 hours, depending on the surface, temperature, relative humidity and layer thickness
- Hardening : as a result of drying, polymerisation and hydraulic curing
- Adhesion :  $\geq 0.5 \text{ N/mm}^2$  in compliance with EN 1348
- Water resistance : yes, adhesion  $\geq 1.0 \text{ N/mm}^2$  in compliance with EN 1348
- Frost resistance :  $\geq 1.0 \text{ N/mm}^2$  in compliance with EN 1348
- Min./max. temperature : -15° C / +70° C (occasionally)
- Heat ageing :  $\geq 1.0 \text{ N/mm}^2$  in compliance with EN 1348

For explanatory notes concerning some of these points, please refer to our document “General instructions for application and information on powder tile adhesives”.

### Packaging

- Available in strong multilayer paper bags, which are sewn and secured using adhesive, with a net content of 25 kg.

### Storage and shelf life

- Store in a dry and sheltered place, as the powder is sensitive to moisture.
- Keeps for 6 months in its original sealed packaging.

### Health and Safety

DB FLEX R 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.*