



## UNIVERSAL POWDERED TILE ADHESIVE

### Characteristic product properties

- Universal adhesive with good filling capability.
- For ceramic wall and floor tiles.
- Thickness of layer up to 10 mm.
- Interior use. (Exterior use under certain conditions)
- Wall and floor.
- Classification according to EN 12004: C2TE.

### Applications

Apply for the bonding of stone, ceramic or porcelain floor and wall tiles and stone strips. For interior applications in a dry environment and on mineral substrates. The substrates may not move and must be stable. PL35 omniceM can be made up with FLEX+ omnibind for special applications, such as for using the adhesive on critical substrates. Suitable for interior work and, when combined with a well-drained substrate, for exterior applications.

### Appropriate surfaces

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| <ul style="list-style-type: none"> <li>■ Brick</li> <li>■ Concrete (6 months old)</li> <li>■ Concrete stone</li> <li>■ Cement render</li> <li>■ Cement screed</li> <li>■ Cement screed with underfloor heating</li> </ul> | <ul style="list-style-type: none"> <li>■ Gypsum plaster (white powdered adhesive)</li> <li>■ Gypsum block (white powdered adhesive)</li> <li>■ Gypsum board</li> <li>■ Lime cement render</li> <li>■ O-BOARD</li> </ul> |
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Also see our “General substrate guidelines” for specific details.

### Alternative products/specific applications

- Critical substrates or for intensive use: PL85 omniceM.
- For a fast finish: E FLEX R omniceM.
- When working with marble composite tiles: PL85 PROF R omniceM.
- Tiles or uncalibrated natural stone, to be laid on a thicker layer of adhesive: DB FLEX omniceM.
- Especially for anhydrite substrates: ADG omniceM.

### Substrate preparation

- The surface needs to be stable, weight-bearing and free of oil, grease, dirt and dust.
- Cleaning: This can vary from degreasing for tile-on-tile applications, to sanding and/or blasting with fluted concrete or greasy substrates.
- Treat all absorbent, smooth, sealed, dense or powdered substrates beforehand with Omnibind:
  - TP = universal
  - TPW = waterproof (wall)
  - COAT = waterproof (wall & floor)
  - ZR = smooth and closed surfaces
- Watch out for existing cracks in the substrate. These must first be investigated further before you start tiling.

You will find more details about substrate preparation in our information sheet about “Substrate Preparation”.

### Working instructions

- Make up adhesive using clean tap water in the following proportions:
  - Normal: 7 litres of water for 25 kg of powder.
  - Specific applications: 7 litres of FLEX+ omnibind for 25 kg of powder.
- Make sure that the water (or FLEX+) is in the tub first and then add the powder.
- Mix it all together using a mixer for (a minimum of) 4 minutes until you have a homogeneous, lump-free mixture. The adhesive paste obtained in this way is ready for immediate use.
- Apply to the substrate using a correctly notched adhesive comb.
- Press tiles firmly into the bed of adhesive with a sliding movement.
- Lay the tiles within 30 minutes.
- Make any adjustments within 15 minutes.

You will find more details on the page headed “General working instructions and data about powdered tile adhesive”.

### Easy to process





### Usage

Minimum of 2.5 kg per m<sup>2</sup>, depending on the substrate and the type of tile. Calculate the usage of powdered tile adhesives on [www.omnicol.eu](http://www.omnicol.eu)

### Product composition

PL35 omnicem is a synthetic modified tile adhesive based on white or grey Portland cement with carefully selected additives.

### Technical properties

- Supplied as : powder
- Colour : white or grey
- CE conformity : C2TE according to EN 12004
- Application time at 20° C : maximum 4 hours
- Open time : min. 30 minutes in compliance with EN 1346
- Waiting time : none
- Maximum layer thickness : 10 mm
- Curing time : approx. 24 hours, depending on the surface, temperature, relative humidity and layer thickness
- Hardening : hardens as the result of drying, polymerisation and hydraulic binding
- Bond strength :  $\geq 1.0$  N/mm<sup>2</sup> according to EN 1348
- Flexibility :  $> 2.5$  mm deflection according to EN 12002
- Water resistance : yes, bond strength  $\geq 1.0$  N/mm<sup>2</sup> according to EN 1348
- Frost resistance :  $\geq 1.0$  N/mm<sup>2</sup> according to EN 1348
- Min. / max. temperature : -15° C/ +70° C (incidental)
- Ageing through heat :  $\geq 1.0$  N/mm<sup>2</sup> according to EN 1348

For an explanation of some terms, see our "General working instructions and data about powdered tile adhesives".

### Packaging

- Available in sturdy, tightly stitched and glued multilayer paper sacks with net contents of 25 kg.

### Storage and shelf life

- For storage we recommend using a dry, covered place for storage as the powder is sensitive to moisture.
- Can be stored for 12 months in the original, sealed packaging.

### Health and Safety

PL35 omnicem contains pure Portland cement. Further details about working with products containing cement are 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.*