

FLEXIBLE POWDERED TILE ADHESIVE

Characteristic product properties

- Universal adhesive with good filler capabilities.
- Thickness of layer up to 10 mm.
- Wall and floor.
- Interior use. (Exterior use under certain conditions)
- Classification according to EN 12004: C2TE.

Applications

Use for applying all possible ceramic floor and wall tiles, even with a porosity of < 0.2%, and stone strips. Use the white quality adhesive with natural stone prone to staining. Good levelling capabilities, particularly important when working with large-size tiles or on substrates that are not totally flat. Suitable for interior use and combine with a well-drained substrate. Also for exterior use. Can be used with underfloor heating. Not suitable for any substrates prone to movement. Examples of applications include home-building and projects.

Appropriate surfaces

- | | |
|---|--|
| ■ Brick | ■ Gypsum plaster (white powdered adhesive) |
| ■ Concrete (6 months old) | ■ Gypsum block (white powdered adhesive) |
| ■ Cement render | ■ Gypsum board |
| ■ Cement screed with underfloor heating | ■ Lime cement render |
| ■ Aerated concrete (interior) | ■ O-BOARD |

Also see our "General substrate guidelines" for specific details.

Alternative products/specific applications

- On anhydrite substrates: ADG omnicem
- 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 thicker layers of adhesive: DB FLEX omnicem.

Substrate preparation

- The surface needs to be stable, weight-bearing and free of oil, grease, dirt and dust.
- 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: 7-7.5 litres of water to 25 kg of powder.
- Make sure that the water 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.
- Lay the tiles within 30 minutes.
- Press tiles firmly into the bed of adhesive with a sliding movement.
- Make any adjustments within 15 minutes.

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

Usage

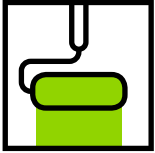
Minimum of 2.5 kg per m², depending on the substrate and the type of tile. Calculate the usage of powdered tile adhesives on www.omnicol.eu

Product composition

PL50 omnicem is a synthetic modified tile adhesive based on white or grey Portland cement with carefully selected additives.

Good filler capabilities





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 : $\geq 1.0 \text{ N/mm}^2$ according to EN 1348
- Flexibility : $> 2.5 \text{ mm}$ deflection according to EN 12002
- Water resistance : yes, bond strength $\geq 1.0 \text{ N/mm}^2$ according to EN 1348
- Frost resistance : $\geq 1.0 \text{ N/mm}^2$ according to EN 1348
- Min. / max. temperature : $-15^\circ \text{ C} / +70^\circ \text{ C}$ (incidental)
- Ageing through heat : $\geq 1.0 \text{ N/mm}^2$ 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

PL50 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 for the most recent version of this TDS.