E FLEX

OMNICEM

POWDER TILE ADHESIVE

FLEXIBLE POWDER TILE ADHESIVE

Characteristic product properties
- Suitable as an adhesive for most types of tile.
- Ideal if you need a slightly thicker adhesive.
- Layer thickness: up to 20 mm.
- Can be applied to walls and floors.
- For indoor and outdoor use.
- Classified in compliance with EN 12004: C2TE S1.

Applications
For laying all ceramic floor and wall tiles, calibrated natural stone, composite cement tiles, (glass) mosaic tiles and bricks Use white adhesive for types of natural stone that are sensitive to staining. Excellent levelling capacity, which is especially important when laying large format tiles and on surfaces that are not entirely level. Preparing the adhesive with a little extra water produces a liquid adhesive bed, which ensures 100% surface contact for large format tiles. The mortar can be used without any problems inside and outside. Can be used as an adhesive on surfaces that are not placed under any kind of strain, as well as most surfaces that are subjected to more wear and tear. Bathrooms, damp areas, and exterior tiling are just a few examples.

Appropriate surfaces
- Anhydrite (white powder adhesive)
- Brick
- Existing tiles
- Concrete
- Concrete blocks
- Cellular concrete (interior)
- Cement coating
- Cement screed
- Cement screed with underfloor heating
- Ditra matting
- Electric underfloor heating
- Plaster coating (white powder adhesive)
- Plaster blocks (white powder adhesive)
- Plasterboard
- Fibre-plaster boards (white powder adhesive)
- Approved cement-based board
- Lime-cement coating
- Sand-limestone (interior)
- Ceramic interior bricks
- O-BOARD
- Decorative coating
- Silicate board
- Stone carpet
- Paint
- Wall heating
- Wedi or Lux

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

Other products/specific applications
- Fast hardening adhesive: E FLEX R omnicem.
- For laying composite marble tiles: PL85 PROF R omnicem.
- For uncalibrated natural stone: apply to a thicker layer of adhesive: DB FLEX omnicem.
- On anhydrite : ADG omnicem.

Preparing the surface
- The surface must be dry, 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.
- First treat any surfaces that are porous, smooth, closed, compact, powdery or contain sulphates, using Omnibind:
  TP = for general use
  TPW = waterproof (walls)
  COAT = waterproof (walls and floors)
  AD = on anhydrite
  ZR = smooth and closed surfaces
- Attention: cast anhydrite must be sanded (residual humidity < 0.5 % by 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.

Instructions for application
- Prepare with clean running water, according to the following proportions:
  Normally: 7 litres of water per 25 kg of powder.
  The quantity of water can be adjusted slightly, for example, when laying tiles lightly on the floor or for increased slip resistance on walls. For a liquid adhesive bed: 8 litres of water per 25 kg of powder.
- Start by pouring the water into the pot before adding the powder.

Flexible

PROLINE
S1
EASY
MAX. 20 mm
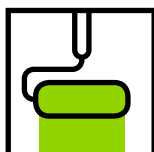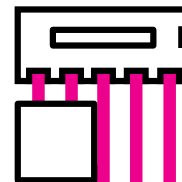
- Combine using a mixer for 4 minutes (minimum) until you obtain a homogeneous mass without any lumps. The resulting paste is immediately ready for use.
- Apply evenly to the surface using an adhesive comb with the appropriate tooth size.
- Press down firmly on the tiles, while laying them on the adhesive bed using a sliding movement.
- Lay the tiles within 30 minutes.
- Make any necessary corrections within 15 minutes.

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

Consumption

Minimum 2.5 kg per m^2, depending on the surface and type of tile. Calculate the consumption of powder tile adhesives at www.omnicol.eu.

Product composition

E FLEX omnicem is a modified synthetic resin tile adhesive based on white or grey Portland cement, which contains carefully selected additives.

Technical properties

- Supplied in the form of : powder
- Colour : white or grey
- CE conformity : C2TE in compliance with EN 12004
- Flexibility : S1 ≥ 2.5 mm deflection in compliance with EN 12002
- Application time at 20° C : maximum 4 hours
- Open time : min. 30 minutes in compliance with EN 1346
- Waiting time : none
- Maximum layer thickness : 20 mm
- Curing time : approx. 24 hours, depending on the surface, temperature, relative humidity and layer thickness
- Hardening : as a result of drying, polymerisation and hydraulic curing
- Adhesion : ≥ 1.0 N/mm² in compliance with EN 1348
- Water resistance : yes, adhesion ≥ 1.0 N/mm² in compliance with EN 1348
- Frost resistance : ≥ 1.0 N/mm² (in compliance with EN 1348)
- Min./max. temperature : -15° C / +70° C (occasionally)
- Heat ageing : ≥ 1.0 N/mm² (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.
- In small cardboard boxes with a net content of 5 kg. Packaged in thermoplastic film in groups of 4 boxes.

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

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