



Technical Data Sheet

AK7P

Art.-No. 2 01000

Thin Set Tile Adhesive

Properties:

AK7P is a plastic-modified thin bed adhesive according to Standard EN 12004, for interior and exterior application. AK7P is simple to use, with a high initial bond and very good stability.

Areas of application:

AK7P is used as tile adhesive as a thin layer method for ceramic coatings, mosaic, clinker and brick tiles. We recommend AK7P for natural stone tiles as long as the specific properties of the natural stone are considered. AK7P is suitable for the safe tiling on surfaces according to DIN 18157 part 1, e.g. concrete, plaster, masonry, gypsum boards and heating screed. AK7P is suitable as tile adhesive on construction boards from wood wool, gypsum boards, gypsum fibres and extruded polystyrene.

Technical Data:

Basis:	Sand/cement (polymer modified)
Colour:	Cement grey
Filler structure:	Fine sand
Bulk density:	1.37 kg/l
Application temperature:	+5 °C up to +30 °C
Pot life*:	Approx. 2 hours
Skin formation*:	Approx. 20 minutes
Traversable*:	After approx. 24 hours
Walkable*:	After approx. 24 hours
Cleaning:	Immediately after use with water
Consumption:	Depending on surface and tiles, at least 2.0 kg/m ²
Storage:	In dry storage for up to 12 months, opened bags are to be used up immediately.
Packaging:	25 kg bag with PE inlet

* The values are valid at an ambient temperature of +20 °C and at 65% relative humidity.

Surface preparation:

The surface has to be dry resp., be of load bearing capacity, having no continuous cracks and is to be free from dirt, dust and separating agents. Further information according to DIN 18157 part 1 is available and is to be adhered to.

Absorbing surfaces are to be prepared with ASO-Universal Primer. Smooth concrete surfaces have to be roughened, anhydrite screed has to be abraded and primed with ASO-Universal Primer.

Product preparation:

AK7P is mixed with tap water until a knot-free, pasty like mortar is obtained.

Mixing ratio:

1.00 l water to 3.0 kg AK7P

8.25 l water to 25.0 kg AK7P

Mix again after a short period (3 min) of maturing.

Do not prepare more adhesive than is required, keeping within the handling time of up to two hours.

The ready to use adhesive is applied with surface continuity and troweled with a suitable serrated trowel.

The tiles are fixed with light pressure. Do not cover more surface than is necessary, fixing tiles between 20 and 30 minutes.

Important advice:

AK7P contains cement and reacts alkaline with moisture. Therefore:

- Protect skin and eyes
- In case of irritation wash thoroughly with clear cool water
- In case of eye contact seek immediate medical treatment

With a low content of chromate according to TRGS 613.

With the application of ASOFLEX-AKB for laying of tiles, we recommend ASODUR-EK98. For laying of tiles,

AK7P

slabs on highly stressed areas such as for balconies and terraces, we recommend the application of our high elasticated binding sealant system AQUAFIN-2K/M and UNIFIX-2K.

For laying of cast stone or natural stone it is imperative that the specific product details of the cast material (colourisation and key dangers) etc. and also the laying recommendations, be regarded. If in doubt, carry out tests in advance.

To reduce key factors due to water penetration, we recommend the application of ASODUR-EK98 for agglomerate cast stone.

For levels containing calcium sulfate bindings we recommend a primer such as ASO-Universal Primer-GE or ASO-Universal Primer-K (Mix Ratio 1:3 with water).

To reduce the effect of ettringite in calcium sulfate layers we recommend UNIFIX-AEK, for relocation of such layers with up to 1% of remaining humidity for heated constructions and 1.5% remaining humidity for unheated constructions (according to up to date measures provided by FBH-AD – official handling regulations)

Thin bed mortar which has already hardened should not receive additional water or freshly mixed mortar amounts, trying to achieve a re-workable mixture, this may cause a lack in strength development.

For permanent under water areas (Swimming pools and water vessels etc.), we recommend UNIFIX-2K and UNIFIX-2K/6 our thin bed adhesive system using the Floating-Buttering method, on such areas for application with the appropriate SCHOMBURG sealants.

Industrial flooring can be destroyed by having direct contact between the screed topping and the cemented tiling, a chemical reaction is caused and is known as expansion tendency due to magnesia.

A back drop in the moisture load capacity of the surface must under all circumstances be prevented. The magnesia base is to be mechanically abraded and is to be primed (approx. 250 g/m² with ASODUR-D2). Epoxy resin and an additional 5% max. of water.

After a waiting time of 12 to 24 hrs at an ambient temperature of + 20°C, the second layer of ASODUR-D2 can be applied (approx. 300 - 350 g/m²).

The fresh layer of siliceous sand (grain size 0.5 to 1 mm) is to be spread over the area. After waiting a further 12 to 16 hrs the tile laying can be carried out. AK7P is an hydraulical hardening mortar sealant which can, however, take several days to completely harden under the influence of bad weather conditions. The area should be protected against rain and frost exposure. Surfaces which are not be treated should be protected prior to the application of AK7P.

The up to date, active rules and regulations are to be adhere.

Please adhere to current European Materials Safety Data Sheet (MSDS)

Low chromate content according to TRGS 613 (European Hazmat regulation)