



Technical Data Sheet

MONOFLEX-white

Flexible, white tile adhesive

Art. No. 2 04308

CE	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold, Germany 18 2 04308	
EN 12004 MONOFLEX-white Cement-based adhesive with increased performance for the installation of tiles in interior and exterior areas	
C2	
Reaction to fire:	Class E
Bond strength, as tensile adhesion strength after dry storage:	≥ 1 N/mm ²
Durability, as tensile adhesion strength after water immersion:	≥ 1 N/mm ²
after warm storage:	≥ 1 N/mm ²
after freeze/thaw cycles:	≥ 1 N/mm ²

CE	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold, Germany 18 2 04308-1	
EN 12004 MONOFLEX-white 3:1 with UNIFLEX-F Cement-based adhesive with increased performance for the installation of tiles in interior and exterior areas	
C2	
Reaction to fire:	Class E
Bond strength, as tensile adhesion strength after dry storage:	≥ 1 N/mm ²
Durability, as tensile adhesion strength after water immersion:	≥ 1 N/mm ²
after warm storage:	≥ 1 N/mm ²
after freeze/thaw cycles:	≥ 1 N/mm ²

In a continuously wet area, e.g. swimming pools walkways and public showers, we recommend 25 kg MONOFLEX-white in floor areas enhanced with 2.0 kg UNIFLEX-F. On horizontal exterior surfaces, e.g. balconies and terraces, enhance 25 kg MONOFLEX-white with 8.33 kg UNIFLEX-F.

Technical data:

Basis:	Sand, cement, additives (polymer-modified) off-white
Colour:	off-white
Substrate/	
pot life:	+5 °C to + 30 °C
pot life ^{*)} :	approx. 2 hours
Adhesive open time ^{*)} :	approx. 20 minutes
Ready for grouting ^{*)} :	after 24 hours minimum
Foot traffic after ^{*)} :	after approx. 24 hours
Cleaning:	Clean immediately after use with water
Testing:	DIN EN 12004, MPA-Bruschweig test certificate dependent on the substrate and application material,
Consumption:	min. 1.3 kg/m ² /mm approx. 1.9 kg/m ² with 6 mm notched trowel approx. 2.6 kg/m ² with 8 mm notched trowel approx. 3.2 kg/m ² with 10 mm notched trowel
Packaging:	25 kg bag
Storage:	dry, 12 months in the original unopened container, promptly use opened container



- In accordance with DIN EN 12004, C2 TE S1
- For interior and exterior use
- Smooth and easy to process
- High initial adhesion
- Good stability

Areas of use:

MONOFLEX-white is used as a thin-bed mortar for applying vitrified tiles, earthenware and ceramic with low water absorption ≤ 0.5% (porcelain stoneware), clinker, mosaic and colour-sensitive natural stone materials. For application of glass mosaic, enhance with UNIFLEX-F; please also refer to the instructions.

MONOFLEX-white is suitable for secure application on all substrates according to DIN 18157, part 1, e.g. concrete, aerated concrete, plaster, cement and calcium-sulphate screed/heated screed, masonry work, gypsum fibre boards, etc. and for tiling on SCHOMBURG bonded waterproof systems.

^{*)} The values apply to 23 °C and 50% relative humidity.

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Substrate:

The substrate must be dry, load-bearing, adequately level, free of penetrating cracks and free of separating substances, such as oils, paints, laitance layers, and loose particles. They must have a primarily closed surface condition and exhibit strength typical of their type. The substrate, substrate preparation, and application as per DIN 18157, part 1, are authoritative when laying tiles. Prime absorbent substrates with ASO-Unigrund. Calcium sulphate screeds must be roughened, vacuumed and primed with ASO-Unigrund, as with all calcium sulphate bound substrates. Heated screeds must be heated in accordance with recognised standards before installation of coverings. Moisture measurement should be carried out with the CM device to assess whether it is ready for laying on. The CM moisture content max. values

- CT \leq 2.0% for screed on insulation or a separating layer
 - CA without a floor heating system \leq 0.5%
 - CA with a floor heating system \leq 0.3%
- should not be exceeded.

The CM measurement must be completed in accordance with the current working instructions FBH-AD from the technical information

"Interface coordination with heated floor constructions".

Application:

Mix MONOFLEX-white with clean water in a clean mixing bucket.

Mixing ratio:

Approx. 8.75 l water: 25 kg MONOFLEX-white
highly deformable mortar, class C2 TE S2:

25 kg MONOFLEX-white: 8.33 kg UNIFLEX-F : Mix
in 1 l water to set the consistency.

Mix again after an activation time of 2 min. Do not mix more adhesive mortar than can be used within the pot life. Spread the mixed mortar evenly across the surface and comb through with a suitable notched trowel to suit the board size. Apply the surfacing materials within the adhesive open time.

Notes:

- In commercial areas, ASODUR-EK98 / ASODUR-DESIGN should be used for application of glass mosaic on floors or in a continuously underwater area (swimming pools, containers, etc.)! In private areas, glass mosaic on floors or in a continuously underwater area may be applied alternatively with MONOFLEX-white enhanced with 8.33 kg UNIFLEX-F per 25 kg MONOFLEX-white. To apply glass mosaic on walls, every 25 kg of MONOFLEX-white should be enhanced with 2.0 kg UNIFLEX-F. In underwater areas, only suitable glass mosaic may be used for continuously underwater areas. We recommend glass mosaic adhered with carrier material on the front side and a profile on the rear side. Grouting the glass mosaic may take place in swimming pools, water containers (14 days*) after application with ASODUR-EK98 or ASODUR-DESIGN at the earliest. Wait at least another 7 days*) after completing the grouting before filling the pool. The fresh waterproofing, application, and grouting materials must be protected against moisture until they harden.
- If ASOFLEX-AKB is used, use ASODUR-EK98 or ASODUR-DESIGN for tiling!
- To apply tiles and boards on highly stressed surfaces in exterior areas (balconies and terraces), the highly elastic bonded waterproof systems AQUAFIN-RS300 and UNIFIX-S3 /-fast should be used!
- When laying natural stone and synthetic stone, the product-specific properties of the coating materials (tendency to discolour, curling effects, etc.) and the laying recommendations of the manufacturer must be taken into account. Complete trial adhesions in case of doubt!
- To avoid curling effects due to water absorption, we recommend using ASODUR-EK98 or ASODUR-DESIGN when working with agglomerates/synthetic stone!
- Prime calcium sulphate bound substrates with ASO-Unigrund-GE or ASOUnigrund-K (mix ratio 1:3 with water)! In case of application on calcium sulphate bound substrates, UNIFIX-AEK is useful to avoid

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ettringite formation with residual moistures of 1.0% with heated or 1.5% per CM with unheated constructions!

- Do not add water or new mortar to existing thin-bed mortar that has already set in order to make it workable again, since this would involve a risk of inadequate strength development!
- Direct contact between cement tile mortar and magnesite screeds leads to the destruction of the magnesite screeds through a chemical reaction known as "magnesite pouring". Moisture pressure from the rear of the substrate must be prevented through appropriate measures. The magnesite substrate should be mechanically roughened and primed with the epoxy resin ASODUR-V360W plus max. 5% water (approx. 250 g/m²). After a waiting time of approx. 12 to 24 hours at +20 °C, the second coat of ASODUR-V360W should be applied (approx. 300-350 g/m²). While the second coat is still fresh, apply plenty of quartz sand with a grain size of 0.5-1.0 mm. Installation of coverings may be completed after a further waiting time of approx. 12-16 hours.
- Protect surfaces that are not to be treated from the effects of MONOFLEX-white!
- MONOFLEX-white is a hydraulically hardening mortar that can take several days in unfavourable weather influences before being fully hardened, so it must be protected from exposure to water and frost in the meantime.
- The current relevant regulations are to be observed! So, for example:
DIN 18531, DIN 18534, DIN 18535
DIN 18157, DIN 18352, DIN 18560
EN 13813, DIN 18 202, DIN 1055
The BEB data sheets published by the German Association for Screen and Coverings (Bundesverband Estrich und Belag e.V.)
The technical information "Interface coordination for heated floor structures"

The ZDB data sheets published by the Technical Association of German Tile Industry:

- [* 1] "Bonded waterproof systems"
- [* 2] "Coverings on calcium sulphate screeds"
- [* 3] "Movement joints in cladding and coverings made of tiles and boards"
- [* 4] "Large format ceramic tiles and boards"
- [* 5] "Ceramic tiles and boards, natural stone and artificial stone on cement-based floor constructions with insulating layers"
- [* 6] "Ceramic tiles and boards, natural stone and artificial stone on heated and cement-based floor constructions"
- [* 7] "Outer coverings"
- [* 8] "Coverings on poured asphalt screed"
- [* 9] "Height differences"
- [* 10] "Tolerances"
- [* 11] "Cleaning, protecting, maintaining"
- [* 12] "Swimming pool construction"

Please observe valid EU safety data sheets!
GIS CODE: PU 10