

# Technical Data Sheet



mortar/adhesive systems

**MortaColl®**



## MortaColl® BAM 35-FS

**Extremely low-tension silicate floor leveling compound for leveling out unevenness in the subsurface and embedding thin-layer heating from 1 to max. 35 mm. System product of the SlimaTherm® floor heating and cooling system. Can also be used outdoors, e.g. to compensate for existing bitumen seals.**

### Properties

- Highly flowable
- Setting quickly
- Easy to run
- Layer thicknesses from 1 to 30 mm, partially up to 35 mm
- Extremely low-tension - almost zero - thanks to the innovative HST technology
- Can be covered with ceramic coverings after approx. 12 hours
- Ready for covering carpets and PVC floors after approx. 24 hours
- Parquet and laminate flooring is ready for covering after approx. 48 hours
- Can also be processed by machine
- Very low emission EC 1+ R

### Area of application

- In permanently wet areas with adjacent DimaMat® VDB 1000 composite sealing membrane or all DimaSeal® seals can be combined and used for indoor and outdoor areas to level out existing bitumen seals
- Due to the high level of material security and low tension, it is also ideal for leveling old, stable substrates or for renovation and refurbishment that is subject to deadlines
- for indoor areas (in the SlimaTherm® system) and outdoor areas (in the DimaSeal® system)



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## Technical data

Grain size:	0 – 1 mm
Strength class:	CT-C25-F5 acc. To EN 13813 / DIN18560
Bending tensile strength:	approx. 5 N/mm <sup>2</sup>
Processing temperature:	+5°C to +35°C (air, material and substrate temperature)
Abrasion resistance acc. to BCA:	AR 0.5
Processing time:	approx. 45 min
Blending time:	approx. 1 min
Water demand:	approx. 5.3 to 5.9 l each 25 kg in middel 5.6
Maturing time:	approx. 2 min
Coating thickness:	1 bis 30 mm (partially bis 35 mm)
Walk-on-able:	after approx. 5 hrs (depending on temperature and conditions at the buiding site)
Ready for covering with ceramic tiles:	after approx. 12 hrs (or when walk-on-able)
Ready for covering with vapor-tight coverings:	s. list on pages 3 and 4
Productivity:	approx. 15.5 l each 25 kg
Consumption:	approx. 1.6 kg / m <sup>2</sup> / mm coating thickness
Storage:	Dry and und appropriate
Form of delivery:	25 kg bag

## Preparing of substrate

The substrate must be stable, ready for laying, dry, free of vibrations and cracks, clean and free from contamination and separating layers of all kinds (e.g. paint, oils, etc.). Depending on the substrate, a primer may be required - please consult the STBS® application technology department.



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## Short installation instructions

1. Mix the contents of the bag (25 kg) with approx. 5.2 to a maximum of 6 liters of clean water to a free-flowing consistency. To do this, give 3/4 of the amount of water and mix for approx. 30 seconds using a suitable stirrer. Then add the remaining amount of water and mix again for approx. 30 seconds. After a maturing time of approx. 2 minutes, stir the mortar again briefly.
2. Don't mix more material at one time as can be added in accordance with the consistency. Make sure that the material is worked intensively "into the ground" and distributed with the smoothing machine or rubber squeegee. Then use a suitable squeegee, hard broom, spiked roller or similar to ensure optimal leveling and ventilation of the material.
3. The freshly created surfaces must be protected from drying out too quickly (drafts, high temperatures, direct sunlight, etc.).
4. Clean tools with water immediately after use.

## Readiness for covering

Achieving readiness for covering depends on the construction site situation, the layer thickness and the ambient temperatures. High temperatures accelerate, low temperatures slow down the process. The times given relate to 21 ° C / 55% rel. humidity.

Subsequent covering	Readiness for covering
Ceramic coverings	After approx. 12 hrs (composite material)
Vapor-tight and coverings humidity sensitive coverings, i.e. PVC, parquet	If necessary, carry out a CM measurement. With a measured residual moisture between 2.5 - 3.0 CM%, vapor-tight coverings can be laid. Please note the following information and table.

Note: The residual moisture range specified in the table above is decisive. The following table with the specified times was determined under laboratory conditions and can only be viewed as a guide.

With thin-layer fillings up to 3 mm, tiles are ready for covering after approx. 4 hours, vapor-proof coverings (e.g. carpets or PVC floors) after 24 hours and for parquet and laminate after 48 hours.

## Notes

The technical details relate to 21 ° C / 55% relative humidity. Optimal flow properties are achieved in a temperature range of > 10°C. The flow behavior is reduced at lower temperatures. In this case, do not add any additional mixing water.



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## **STBS Bausysteme GmbH & Co.KG**

Sudetenstraße 66  
64385 Reichelsheim

**Telephone** +49 6164 642774-6

**Fax** +49 6164 642774-7

**E-Mail** [info@stbs-bausysteme.de](mailto:info@stbs-bausysteme.de)

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