



ATE Max is a 3in1 membrane used under floor coverings made of tiles and natural stones in interior and exterior areas. The membrane combines the functions of sealing, decoupling and footfall sound reduction. In addition, many small pipes which are connected with each other ensure an efficient tension reduction between covering and substrate.

PROPERTIES

- Elastic decoupling of rigid coverings
- For critical and young substrates
- Footfall sound reducing effect
- Extremely flat
- Highly crack-bridging
- Reduces tensions
- Quickly and easily fitted
- Extremely good ageing stability

AREAS OF APPLICATION

ATE Max is suitable for the following substrates:

- cement screeds (heated and unheated) directly when being walkable
- concrete (especially young concrete aged ≥ 4 weeks)
- calcium sulphate screeds $\leq 1,0$ CM-%
- plywood boards and OSB-boards
- old tiling
- dry screed constructions
- mastic asphalt screeds (IC 10)
- magnesia screeds
- mixed substrates
- cracked, stable floors

SUBSTRATE PREPARATION

The substrate must be in the following condition:

- dry, clean and frost-free
- stable
- free from grease, paint, cement laitance, separating agents and loose particles
- without height step joints
- in true alignment and perpendicular

Please also note:

- remove old floor coverings and loose as well as water-soluble floor adhesive residuals
- existing cracks must be closed professionally
- level irregular substrates
- apply a scratch coat to porous areas or blowholes first of all (e.g. with M21 Classic)
- prime floor areas with firmly adhering water-insoluble floor adhesive residuals, non-absorbent substrates and old tile coverings with D1 Speed (undiluted)
- absorbent cement based substrates must be primed with D11 or D1 Speed

priming of calcium sulphate screeds with a residual moisture $\leq 0,5$ CM-%

In case of applying the membrane with BOTAMENT rapid adhesives use D1 Speed (prime twice diluted with water 1:1) or D11 (prime twice undiluted).

SUBSTRATE PREPARATION

In case of applying the membrane with normally curing BOTAMENT adhesives use BOTAMENT G140 or E120 (scatter G140 und E120 with quartz sand while fresh)

Do not prime calcium sulphate screeds with a residual moisture > 0,5 CM-%.

For moisture sensitive timber substrates we recommend our primers G140 or E120.

APPLICATION

Preparation

- lay out the ATE Max membrane with the labelled side facing upwards
- cut to fit using a carpet knife or scissors

Application of ATE Max as a decoupling system

- apply BOTAMENT tile adhesive onto the prepared substrate (notched trowel: 6 mm)
- install ATE Max within the adhesive's open-time flush joint to joint
- press on ATE Max using a rubber roller or float
- avoid air bubbles and cross joints
- allow adhesive to dry fully
- to avoid sound transmission paste over the joint zone subsequently by using an adhesive tape (at least 20 mm wide)

The subsequent tile fitting can be performed using the BOTAMENT tile adhesives. For the application of natural stones we recommend MULTISTONE.

Application of ATE Max as a composite sealant system

- apply M21 Classic, M21 HP, M21 HP Speed or M29 HP onto the prepared substrate (notched trowel: 6 mm)
- install ATE Max within the adhesive's open-time flush joint to joint
- press on ATE Max using a rubber roller or float
- avoid air bubbles and cross joints
- allow adhesive to dry fully

ATE Max membrane installed with the tile adhesives M21 Classic, M21 HP, M21 HP Speed and M29 HP has General Building Authority Approval as a system.

All membrane seams as well as joints, internal and external corners are pasted over with SB78 sealing tape and accessories. The application of the sealing tape and the accessories must be done by using MD1 Speed Flexible Sealing Slurry.

The subsequent tile fitting can be performed using M21 Classic, M21 HP, M21 HP Speed or M29 HP.

IMPORTANT ADVISORIES

Note on the impact sound improvement factor: The specified value was determined in accordance with DIN EN ISO 140-8. Due to different construction situations, the practical values can be exceeded or undercut. To determine the real value, a measurement on the respective object is required.

The direct application of ATE Max onto timber substrates is possible if they are sufficiently stable and vibration-free. Otherwise timber substrates must first be stiffened with M53 Extra fibre-reinforced levelling compound (≥ 10 mm).

In exterior areas ceramic materials which are placed onto the ATE Max must show a thickness of $\geq 7,5$ mm.

The surface of calcium sulphate screeds have to be grinded prior to the application to remove loose or separating layers.

Levelling layers must as a matter of principle be installed under the ATE Max.

Expansion joints in the substrate must be copied over generally.

The ATE Max must after installation be protected against moisture, strong sunlight and against great temperature changes until the adhesive bed has fully cured.

IMPORTANT ADVISORIES

The ATE Max is suitable for areas with light traffic load such as car showrooms or salesrooms. In this case the breaking force F(N) (according to EN ISO 10545-4) of the chosen ceramic must be at least 3.000 N.

Tips for the application of ATE Max onto young cement screeds

ATE Max can be applied under ceramic coverings onto heated or unheated cement screeds from the time of accessibility. Die application of ATE Max must be finished at the latest on the fifth day after the installation of the screed. The underfloor heating must be commissioned no earlier than 21 days after completion of the tiling. Start with a maximum initial flow temperature of 25 °C.

In this case, the following must be regarded:

According to the current technical rules a waiting period of 28 days as well as a maximum residual moisture according to the respective national guidelines has to be observed. In the event of deviations from this, the client must be informed of this in advance for legal reasons. The written agreement of this type of execution is recommended in any case.

Tips for the application of ATE Max onto calcium sulphate screeds with a residual moisture of > 0,5 CM-% ≤ 1,0 CM-%

In this case the application of ATE Max is done with P450 Elastic parquet adhesive (notched trowel: 4 mm) without prior priming. A drying time of at least 24 hours must be allowed before subsequent tiling.

In this case, the following must be regarded:

According to the current technical rules a maximum residual moisture according to the respective national guidelines has to be observed for calcium sulphate screeds. In the event of deviations from this, the client must be informed of this in advance for legal reasons. The written agreement of this type of execution is recommended in any case.

After completion of the tile covering, the following waiting time for sufficient hardening of the adhesive bed must be observed before commissioning the underfloor heating:

BOTAMENT tile adhesive	waiting time
M 21 Classic	21 days
M 21 HP	21 days
M 21 HP Speed	5 days
M 29 HP	10 days

Start with a maximum initial flow temperature of 25 °C.

Tip for substrates with residual moisture contents above the valid standards and guidelines

Provided that in these cases tiles or slabs with a format > 60 x 60 cm should be applied, please contact our technical department in advance.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Thickness	mm	1.8	
Width	m		
Specific weight	g/m ²	850	
Thermal resistance	°C	> -30 < 90	
Heat transfer resistance R	m ² K/W	0.029	
Thermal conductivity λ	W/m · K	0.062	
Foot fall sound attenuation	dB	~ 10	based on DIN EN ISO 140-8 (under fully bonded ceramic coverings)

base	Polyethylene membrane, laminated with non-woven on both sides		
delivery form	15 m roll (18 rolls/ pallet)		
Storage	Store in a cool, dry place!		

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by Botament's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2300016695]