

Area of application

MB-Typ E is suitable for screeds indoors and outdoors, for early coverable, fast-hardening bonded screeds, screeds on separating or insulating layers and especially for heating screeds.

Product features

Can be covered with tiles, parquet, laminate, linoleum, PVC or carpet after 5 – 21 days, depending on the dosage. MB-Typ E allows a long working time, offers early walkability and load-bearing capacity and hardens with low shrinkage and tension.

Most frequent dosages

Ready for covering after 18 – 21 days: 0.20 l MB-Typ E
per screed mixture (standard mixing tank, 250 l gross content)
= 1,000 ml/m³

Ready for covering after 12 – 14 days: 0.28 l MB-Typ E
per screed mixture (standard mixing tank, 250 l gross capacity)
= 1,250 ml/m³

Ready for covering after 5 – 7 days: 0.35 l MB-Typ E
per screed mixture (standard mixing tank, 250 l gross content)
= 1,750 ml/m³

w/c-value: max. 0.55 (for all dosages); this information refers to 50 mm construction height for unheated and max. 65 mm for heated screed constructions.

For thicknesses ≥ 60 mm for unheated screeds and ≥ 70 mm for heated screeds, the dosage must be increased to 0.35 l MB-Typ E = 1,750 ml/m³, irrespective of the desired readiness for covering. However, we recommend this dosage increase already for screed thicknesses ≥ 50 mm. Experience has shown that the time required to achieve readiness for covering may be longer, especially during the very fast acceleration phases (5 – 7 days), even with this dosage. For screed thicknesses of 70 to 80 mm, delays of 2 to 3 days and for screed thicknesses of 80 to 100 mm, delays of 5 to 6 days are possible. Increases in dosage up to a maximum of 500 ml standard screed mix = 2,500 m³ are possible.

Attention: 500 ml = 2,500 ml/m³ must not be exceeded under any circumstances.

A dosage of 0.35 l MB-Typ E = 1,750 ml/m³ is also mandatory if a pipe overlay of 35 mm is to be installed with heating screeds. For the required screed qualities CT-30-F5 or CT-C35-F5 (applies to all screed construction types), a dosage of 0.35 l MB-Typ E = 1,750 ml/m³ must also always be applied, regardless of the screed thickness.

Processing

When processing MB-Typ E, DIN 18560, DIN EN 13318 and DIN EN 13813 must be observed. For aggregates, it is mandatory to use grading curve A/B, 0 – 8 mm, for the production of screed concrete according to DIN 1045-2. It is imperative that only suitable cements are used. For the execution and production of screeds with MB-Typ E, the general guidelines, MULTIBETON data sheets and the normative specifications for cement screeds apply. The accelerated hardening of MB-Typ E must be observed.

- Application temperature +5 °C to max. +28 °C (ambient and substrate temperature).
- Apply MB-Typ E within 60 minutes after mixing. Higher temperatures shorten, lower temperatures extend the working time. The following generally applies: MB-Typ E screeds should be troweled and smoothed/rubbed after max. 90 minutes.
- Never reactivate screed mortar that has already set with water - this applies in particular to mechanical smoothing and smoothing by hand - or mix it with fresh MB-Typ E.
- Shake MB-Typ E intensively before each application.
- Repeated shaking (approx. every 30 minutes) during application must be observed and carried out. Longer standing times of the canister cause the ingredients to settle and negatively affect the effect and functionality.
- Avoid draughts, direct sunlight and excessive heat (heating period in the cold season) during the entire application. Large window fronts and floor-level glass façade areas should be darkened if necessary.

Mixing

Fill the screed machine as usual about halfway with sand and the entire quantity of cement, add MB-Typ E to the first mixing water (usually 5 – 10 litres) and then fill the machine completely. Meanwhile, gradually add the required residual water quantity until a stiff-plastic consistency is achieved. A mixing time of 2 minutes causes the necessary breakdown of the ingredients as well as the mode of action of MB-Typ E and must therefore be strictly adhered to. MB-Typ E must not be mixed with other screed and mortar additives at any time.

All information on this product is based on extensive practical experience and testing by MULTIBETON. However, it is not possible to cover all construction site conditions and to take into account the corresponding design specifications. It is therefore recommended that the applicability, practicality and feasibility of this information and the measures provided in each case be checked by carrying out your own tests. MULTIBETON guarantees the correctness of the content of this product information and the described properties as well as the effect of the product.