

Function

Highly innovative screed product for the production of thin-layer, low-shrinkage and stress-reduced cement screeds on underfloor heating of type A (A1). Due to the layer thickness reduction/mass reduction of the screeds, particularly suitable for renovation areas with low construction heights and static requirements.

Product features

- Pipe coverings possible with heating screeds from 20 mm;
- Functioning almost independent of temperature (not below +5 °C and not above 28 °C) and air humidity;
- When using 42.5 R cement, ready for covering after 72 hours for ceramic tiles, after 120 hours for all other coverings.
- Long working time despite short curing time;
- Excellent working properties, among other things due to significantly reduced pull-off resistance, especially with larger cement quantities;
- Insensitive to moisture, therefore can also be used in permanently wet areas;

Mixing instructions

Heating screeds with 20 mm heating pipe cover, bonded screeds from 25 mm layer thickness and floating screeds and screeds on a separating layer from 35 mm layer thickness.

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| a. Cement CEM I or CEM II approved by MULTIBETON | |
| 50 kg | 250 kg/m ³ |
| b. Gravel sand 0 - 8 mm (grading curve range A/B, 0 - 8) | |
| 310 kg | 1,560 kg/m ³ |
| c. MB Screed emulsion special | |
| 4 l | 20 l/m ³ |
| d. Steel fibres | |
| 8 kg | 40 kg/m ³ |

Water-binder value: 0.40 - 0.55

Application temperature: +5 °C to +28 °C

Set to foot traffic after 24 hours. Load-bearing after 72 hours.

Mixing

Fill the screed machine as usual about halfway with sand and the entire quantity of cement, add MB-PVP 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 the MB-PVP and must therefore be strictly adhered to. MB-PVP must not be mixed with other screed and mortar additives at any time.

Remarks

- Special surface heating systems for low construction heights are to be used preferentially for heated constructions.
- For the application of MB-PVP, it is essential that each installation crew is instructed in advance by a MULTIBETON technician.
- The compressibility of the insulation layers must not exceed 3 mm in total.
- Maximum surface load is 3.5 kN/m² (with 20 mm pipe overlap).
- MB-PVP is not suitable for screed coverings of 20 mm for installation pipes (insulated or uninsulated). The specifications of DIN 18560 apply here.
- Thin-layer screed systems influence the natural resonance behaviour of floating screed constructions.

Important note: Cement quantities below 50 kg = 250 kg/m³ and/or dosages below 4 l = 20 l/m³ do not cause any increase in strength compared to screeds without MB-PVP.

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.

