



webervetonit 5400 Heated Floor Screed

- Quickly waterproofed
- Bathroom inclines
- Heated floors
- Fiber reinforced
- Low alkaline

About this product

Quick-hardening and enables fast covering, cement-based screed for heated floors in wet rooms. It can be spread by hand or pumped. Layer thickness 5-100 mm.

Product attributes

- Low emissions
- Fibre reinforced
- Heated floors
- Low alkaline
- Low dust

Application characteristics

- Hand applied
- Pumpable

Area of use

Interior electrically and hydronically heated floors and incline casting. It can also be used in floating reinforced structures.

Substrate

Suitable substrates are cement-based substrates with a tensile strength of > 1 MPa as well as various board surfaces, for example plasterboard. There are separate instructions for treating the substrate, see weber MD 16 Primer product datasheet.

Substrate type

- Concrete
- Floor levelling
- Flooring plasterboard

Mixing

One sack (20 kg) of powder is mixed in 3.0 litres of clean water (15% of dry weight). If necessary, the indicative amount of water can be increased by no more than 0.6 liters / 20 kg sack (18%) to give a more easily spreadable screed, e.g. for pumping. The mass is mixed for at least 1 minute with a powerful drill whisk. When pumping, use the Weber approved automatic mixer. The working time in normal conditions is 20 minutes after adding water. The temperature of the mass should be at least +10 °C. In cold conditions use warm water (max. +35 °C). Excessive water causes separation and lowers the strength of the surface layer, which is why excess water must not be used.

Work instructions

The building must have a roof, and windows and doorways must be closed. The substrate and the air temperature during the levelling work and for a week thereafter must be between +10...+25 °C. Draught on the floor surface must be avoided during levelling and for 3 days after. The relative humidity of

Product specification

Material consumption	approx. 1.8 kg/m ² /1mm layer
Recommended layer thickness	5-100 mm (Floating structure 25-100 mm)
Recommended water content	3.0-3.6 l/20 kg (15-18% of dry weight)
Application temperature	+10...+25 °C. Optimal +15...+20 °C.
Curing time for covering	1-3 days (+23 °C, 50% RH)
Curing time for pedestrian traffic	2-3 h (+23 °C, 50% RH)
Binder	Special cement mixture
Filler	Natural sand and limestone powder, grain size < 12 mm
Additive	Additives to improve adhesion and workability properties. Casein-free.
Floor screed layer tensile strength 28 days	≥ 1.5 N/mm ²
Compressive strength class	C 30 (EN 13813)
Compressive strength 28 days	≥ 30 N/mm ² (+23 °C, 50% RH)
Flexural strength class	F 6 (EN 13813)
Flexural strength 28 days	> 6 MPa (+23 °C, 50% RH)
Shrinkage 28 days	< 0.4 mm/m (+23 °C, 50% RH)
Reaction to fire (for exposure situations)	A2 _{sl} -s1 (EN 13501-1)
Wear resistance to rolling wheel of screed material with floor coverings (RWFC)	RWFC 250. Can be used in offices. (EN 13813)
Durability	Water resistant
The pH of the cured material	10.5-11. Low alkaline.
Thermal conductivity	Lambda _{d,0} : 0.7 W/m K
Color	Grey
Shelf life	approx. 12 months from the date of manufacture (Unopened package, dry space)
Package	20 kg sack
Certifications	CE, MI, ECI+, EPD

the substrate must be <90%. The screed is applied with a steel trowel or a float. Clean tools with water immediately after use. Hardened screed must be mechanically removed from tools.

Covering time:

The screed is ready for foot traffic in 2-3 hours when the room temperature is +23 °C. If necessary, the surface can be sanded or smoothed (using webervetonit 3100 Fine levelling, for example) 3-4 hours after levelling. An under 20 mm thick levelling layer may be coated 1 day after levelling when the drying conditions are normal (+23 °C, 50% RH). Covering time for thicker layers is approx. 3 days. If more than 3.0 l / 20 kg water is used, the covering time will be prolonged for a few days. High moisture content of the substrate and poor drying conditions prolong the covering time. When installing the floor covering, the ground humidity guidelines required by RYL and the coating manufacturer must be followed.

Coating

The levelled substrate can be waterproofed in accordance with Weber's Waterproofing work instructions or can be covered, for example, with ceramic and stone tiles, plastic or textile mats, vinyl tiles, cork, laminate, board parquet or water-soluble solvent-free epoxy paint (for example weber-

floor 4736 Epoxy paint and paint priming with weberfloor 4712 Sealing epoxy - the suitability of other paints must be checked with the paint manufacturer). The substrate can be painted with water-soluble solvent-free acrylic paint (for example Teknospro Binder Plus + Teknofloor Aqua Pro - the suitability of other paints must be checked with the paint manufacturer). Protection against alkaline degradation is obtained with a minimum screed thickness of 5 mm.

A base of plywood is installed on the substrate under the parquet flooring or flexible STP adhesives are used to glue them together according to the parquet manufacturer's instructions.

Disclaimer

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