



weber 4100 Vaateri Plus

- Excellent spreadability and workability
- Pumpable
- Low alkaline pH 10.5-11 – Protects against alkaline degradation of floor adhesives (min. 5 mm thickness) -> healthy indoor air

About this product

Cement-based ultra-easy-spreading floor screed for interior concrete substrates. Layer thickness 4-30 mm.

Application characteristics

- Hand applied
- Pumpable

Area of use

Levelling of very uneven concrete substrates indoors before installing floor covering.

Substrate

Suitable substrates are cement-based substrates with a tensile strength of > 0.5 MPa. There are separate instructions for treating the substrate, see weber MD 16 Primer product datasheet.

Substrate type

- Concrete
- Cementitious floor levelling

Mixing

One sack (20 kg) of powder is mixed in 4.2 litres of clean water (21% of dry weight). The mass is mixed for at least 1 minute with a powerful drill whisk. The working time is normally 20-30 minutes after the addition of water. The temperature of the mass must be at least +10 °C. In cold conditions use warm water (max. +35 °C). Excessive water causes separation, lowers the strength of the surface layer and slows down the drying.

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 the substrate must be <90%. After mixing, the mass is poured continuously in 30-40 cm wide bands onto the floor. The mass spreads well and spreading can be facilitated using a steel trowel. Spreading is continued without interruption until the entire area is levelled. Large areas to be levelled are divided into smaller bays using temporary borders. Levelling work is recommended to be done by two people, where one is mixing and the other is spreading the mass. Clean tools with water immediately after use. Hardened screed must be mechanically removed from tools.

Drying time:

The screed is ready for foot traffic in 3-4 hours when the ambient temperature is approx. +23 °C and relative humidity

Product specification

Material consumption	approx. 1.7 kg/m ² /1 mm layer
Recommended layer thickness	4-30 mm
Recommended water content	4.2 l/20 kg (21% of dry weight)
Application temperature	+10...+25 °C. Optimal +15...+20 °C.
Curing time for covering	1-3 weeks depending on the layer thickness (+23 °C, 50% RH): 10 mm (1 week), 10-20 mm (2 weeks), 20-30 mm (3 weeks).
Curing time for pedestrian traffic	3-4 h (+23 °C, 50% RH)
Binder	Special cement mixture
Filler	Natural sand and limestone powder, grain size < 0.6 mm
Additive	Additives to improve adhesion and workability properties. Casein-free.
Compressive strength class	C 20 (EN 13813) (+23 °C, 50% RH)
Flexural strength class	F 5 (EN 13813) (+23 °C, 50% RH)
Shrinkage 28 days	< 0.5 mm/m (+23 °C, 50% RH)
Reaction to fire (for exposive situations)	A2 _{sl} -s1 (EN 13501-1)
Fire resistance classification	EI 15 requirements are met with a layer thickness of 25 mm and EI 30 requirements with a layer thickness of 35 mm.
Covering class (against ignition)	Can be used as a floor covering (protection against ignition) that replaces the K ₁₀ cover when the layer thickness is at least 25 mm and that replaces the K ₃₀ cover when the layer thickness is at least 35 mm.
Wear resistance to rolling wheel of screed material with floor coverings (RWFC)	RWFC 450. Can be used in offices. (EN 13813)
Durability	Water resistant
The pH of the cured material	10.5-11. Low alkaline.
Color	Grey
Storage conditions	Shelf life is approx. 12 months from the date of manufacture (unopened package, dry space)
Package	20 kg sack
GTIN-codes	6415910032517 (20 kg)
Certifications	CE, MI, ECI+, EPD, Avainlippu

50%. If necessary, the surface can be honed and smoothed (e.g. weber 3100 Fine levelling) 2 days after levelling. The floor covering can be installed 1-3 weeks after levelling depending on the layer thickness and the drying conditions. High moisture content in the substrate and poor drying conditions increase the drying time. When installing the floor covering, the substrate humidity guidelines required by RYL and the coating manufacturer must be followed.

Movement joints:

At the structural movement joints of the substrate, the levelling layer is cut off using an angle grinder, for example, as soon as the screed surface is ready for foot traffic. The joints are filled with an elastic seam filler.

Coating

The levelled substrate can be covered with most floor coverings such as ceramic and stone tiles, plastic or textile mats, vinyl tiles, cork, board parquet or water-soluble solvent-free epoxy paint (for example weberfloor 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.

weber 4100 Vaateri Plus is suitable for use as a base for painted spaces that do not require high wear resistance (e.g. outdoor storage facilities). Premises with greater wear and/or where drying time is critical the paint substrate should be made using weber 3300 Smooth Levelling.

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.

Resin floors (PU, epoxy and acrylic-based). The suitability of the overlayment must be checked from the manufacturer. Weberfloor 4712 Sealing Epoxy should be used as a primer with acrylic-based products, unless otherwise instructed by the overlayment manufacture.

It is recommended to grind the screed surface before coating to remove any contaminants or other substances that weaken adhesion to the substrate.

Disclaimer

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