WEBER 5400 HEATED FLOOR SCREED

- Quickly waterproofed
- Bathroom inclines
- Heated floors
- Fiber reinforced
- Low alkaline
- Certified EPD environmental product description
- The product is a declared item in the Supply Chain Declaration Portal (SCDP) for New Buildings generation 4.

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.

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 < 0.5 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.

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). Excessi-

PRODUCT SPECIFICATION

Material consumption	approx. 1.8 kg/m²/1 mm 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 < 1.2 mm
Additive	Additives to improve adhesion and workability properties. Casein-free.
Adhesion strength 28 days	> 2.0 MPa (adhesion to concrete K30, EN 13813)
Compressive strength class	C 30 (EN 13813)
Flexural strength class	F 6 (EN 13813)
Shrinkage 28 days	< 0.4 mm/m (+23 °C, 50% RH)
Reaction to fire (for exposi-ve situations)	$A2_{FL}$-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_2$10 cover when the layer thickness is at least 25 mm and that replaces the $K_2$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.
Thermal conductivity	$Lambda_{10}$: 0.7 W/m K
Color	Grey
Storage conditions	Shelf life is approx. 12 months from the date of manufac-ture (unopened package, dry space)
Package	20 kg sack
GTIN-codes	6415910032579 (20 kg)
Certifications	CE, M1, EC1+, EPD, Key Flag Symbol

Saint-Gobain Finland Oy
Weber
Strömberginkuja 2, PL 70
00381 Helsinki

www.fi.weber

Saint-Gobain Tuoteneuvonta
Puh. 010 44 22 312
tuoteneuvonta@saint-gobain.com

2025-04-14

ve 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 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 weber 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 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.

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

As there are different conditions at every opportunity, Weber can not be held responsible for anything other than the information provided under the heading "Product Specification". Examples of information and circumstances, which are outside Saint-Gobain (whether specifically stated or not) include storage, construction, processing, interoperability with other products, workmanship and local conditions.

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