webervetonit 4655 Industry Flow Rapid

- Coating after 1 day, e.g. with epoxy
- Easy spreading
- Nearly crack-free floors without elevations on the edge
- Low alkaline pH 10.5-11 – Protects against alkaline degradation of floor adhesives (min. 5 mm thickness) -> healthy indoor air

About this product

Pumpable, fast setting and enables fast covering, cementitious levelling screed for industrial floors. Layer thickness 5-40 mm.

Product attributes

- Low emissions
- Good flow
- Low alkaline
- Coatable
- Self levelling
- Durable
- High stenght
- Reinforced polymer

Application characteristics

- Hand applied
- Pumpable

Area of use

Levelling of light and medium-load industrial floors. The product does not normally require a dust-retention surface treatment agent, but for aesthetic reasons or under chemical stresses it is recommended to coat with solvent-free epoxy or polyurethane-based paint.

Substrate

Suitable substrates are webervetonit 110 fine, webervetonit 120 reno, webervetonit 130 core, webervetonit 140 nova, webervetonit 4601, or concrete with a tensile strength of > 1 MPa. There are separate instructions for treating the substrate, see weber MD 16 Primer product datasheet.

Substrate type

- Concrete
- Floor levelling
- Stone
- Render
- Tile
- Flooring plasterboard
- Mineral
- PVC
- Steel

Mixing

The product is mixed in clean water using a Weber-approved automatic mixer. A suitable amount of water is 20% (dry weight of the screed) equivalent to 4.0 litres / 20 kg sack. Mixing can also be done using a powerful drill whisk for at least 1 minute. The water content can be increased by a maximum of 0.2 litres / 20 kg sack. Pot life in normal conditions is approx. 15 min after adding water. The temperature of the screed must be at least +10 °C. In low temperatures, use warm water (max.

Product specification

Material consumption	approx. 1.7 kg/m²/1 mm layer
Recommended layer thickness	5-40 mm (can be thicker, covering time must be taken into account). Optimal approx. 10 mm.
Recommended water content	4.0 l/20 kg (20% of dry weight)
Application temperature	+10...+25 °C. Optimal +15...+20 °C.
Curing time for covering	Ready for coating in 1-3 days depending on the layer thickness and drying conditions up to 30 mm; covering time is longer for thicker layers (+23 °C, 50% RH).
Curing time for pedestrian traffic	approx. 2-4 h (+23 °C, 50% RH)
Binder	Special cement mixture
Filler	Natural sand and limestone powder
Additive	Additives to improve adhesion and spreadability properties. Casein-free.
Adhesion strength 28 days	≥ 3.0 N/mm². Adhesion to concrete (K30)
Compressive strength class	C 35 (EN 13813)
Compressive strength 28 days	approx. 40 N/mm² (+23 °C, 50% RH)
Flexural strength class	F 10 (EN 13813)
Flexural strength 28 days	approx. 12 N/mm² (+23 °C, 50% RH)
Shrinkage 28 days	< 0.4 mm/m (+23 °C, 50% RH)
Reaction to fire (for exposive situations)	$A2_{FL}$-s1 (EN 13501-1)
Wear resistance to rolling wheel of screed material for wearing layer (RWA)	RWA10 (EN 13813)
Durability	Water resistant
Water vapour diffusion coefficient (μ)	10 (dry) 6 (wet) (EN 12524:2001)
The pH of the cured material	10.5-11. Low alkaline.
Thermal conductivity	1 W/mK (EN 12524:2001)
Specific thermal capacity (Cp)	1 J/(g*C) (EN 12524:2001)
Color	Grey
Shelf life	12 months (20 kg) or 6 months (1000 kg sack) from the date of manufacture (unopened package, dry space). 3 months (storage time of bulk delivery). Longer storage will weaken the strength and spreadability characteristics of the product.
Package	20 kg sack. 1000 kg large sack. Bulk in a silo.
Certifications	CE, M1, EC1+

12/19/2019

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+35 °C). The flow properties of the screed are checked before and during pumping (further instructions from Weber). Excess water causes segregation and weakens the strength of the screed surface, so an excessive amount of water must not be used.

Work instructions

The building must have a roof, and windows and doorways must be closed. The substrate and air temperature during the levelling and for one week after should be between +10...+25 °C. Draught on the floor surface should be avoided during levelling and for three days after the work. The relative humidity of the substrate must be <90%. The maximum width of the pumped area is 6-8 m depending on the pump power and the thickness of the screed. Wider areas are divided into sections using temporary dividers. The pumping is carried out in sections so that the new section is pumped as quickly as possible partially to the previous one. Connecting sections while casting is aided using a wide steel trowel or by "wobbling". When spreading by hand use a steel trowel. Tools must be cleaned with water immediately after use. Hardened screed is removed from the tools mechanically.

Covering time:
The screed can be coated after 1 day, depending on the layer thickness and the drying conditions.

Movement joints:
At the movement joints of the substrate, the levelling layer is cut using an angle grinder, for example, as soon as the levelled surface supports foot traffic. The joints are filled with elastic sealing material.

Coating

The hardened screed is suitable as a floor surface for medium-load industrial spaces or water-soluble solvent-free epoxy surfaces (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). Moisture measurement and drying evaluation should be performed for the entire structure (substrate and screed) and the coating capacity should be evaluated accordingly.

Please observe

Water resistance:
The hardened screed can withstand water. The strength of the completely wet screed decreases, but returns again when the material is completely dried.

Chemical resistance:
The chemical resistance of the product is comparable to compact concrete. Floors exposed to ordinary chemicals, oils, cutting and cleaning fluids, etc. should be treated with a surface finish. Surface treatment is also recommended for the food industry, slaughterhouses, dairies, fish processing plants, etc.

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.

12/19/2019