



weberfloor 140 nova

- Pumpable – fast and more ergonomical application
- Suitable for slopes and flat levelling
- Low emissions
- EPD-Verified
- Indoor Air Comfort GOLD-Verified
- Normal drying

About this product

Weberfloor 140 Nova is a pumpable normal drying, fiber reinforced self-smoothing base and renovation screed for floor. It is based on binders, fillers and additives. The product is delivered as a dry mortar, water is added on site. The final product can withstand temporarily moisture damage, does not contain slagg, fly ash or casein. Weberfloor 140 Nova is CE-labelled and characterized CT-C20-F5. The product is EPD and Indoor Air Comfort GOLD-Verified, registered in Swedish Basta and Nordic Swan ECO label portal and fulfills requirements for screeds in Swedish AMA Hus.

Area of use

Weberfloor 140 Nova is recommended new built and renovation for the areas of use housing, offices and public spaces indoors. It is ideal for the renovation of existing floors and floating floor constructions. The product is suitable for floor heating. A floor covering must be applied on weberfloor 140 Nova. For drying requirements of substrates and weberfloor 140 Nova before surface coating takes place, please refer to current requirements according to AMA Hus. Layer thickness 5-60 mm.

Substrate type

- Concrete
- Cementitious floor levelling
- Tile
- Stone
- Wood
- Floating construction
- Flooring plasterboard
- Wooden chipboard for floors
- PVC
- Cross-laminated timber (CLT)
- Lightweight concrete
- Leca system of joists
- Steel

To know before applying

For multi-layer laying, priming must be carried out between the respective layers. Wait at least 24 hours (+ 20 ° C, 50% RH) before priming and check that the surface is so dry that the primer is absorbed into the substrate. Mixing ratio of freshly applied leveling compound: primer weberfloor 4716 is diluted with five parts water.

Stone / ceramic tiles: For sensitive tiles, such as natural stone tiles, the RF in the substrate and weberfloor 140 Nova should be below 90% before coating takes place.

Weberfloor 140 Nova can be used with underfloor heating, both electric and waterborne. However, electric underfloor heating must not be switched on two days before to one

Product specification

Material consumption	1,7 kg/m ² /mm (according to Swedish GBR method); 5 mm = 8,5 kg/m ² 10 mm = 17,0 kg/m ²
	External measurement performed by RISE 2018-01-17 Report No:8F000976B
Minimum layer thickness	5 mm, 6 mm Lightweight concrete
Maximum layer thickness	60 mm (30 mm Lightweight concrete) Lightweight concrete the leveling compound > 30 mm or surfaces >10 m ² s reinforced with weberfloor steel reinforcement 100 mesh 3,4 mm diameter or equivalent.
Recommended water content	4,2 litres of clean water per 20 kg bag (21%)
Curing time for covering	1-9 weeks depending on layer thickness and in drying conditions +20 RF 50%
Curing time for pedestrian traffic	2-4 hours in normal conditions
Fiber	Yes
Compressive strength class	C20 according to EN 13813
Compressive strength average	26 MPa according to EN 13892-2
Flexural strength class	F5 according to EN 13813
Flexural strenght average	6 MPa according to EN 13892-2
Surface tensile strength	> 10 MPa, after 28 days according to Swedish GBR Trade union standard
Shrinkage 28 days	<0.3 mm / m according to EN 13454-2
Fire class	A2fl s1 according to EN 13501-1
Wear resistance to rolling wheel of screed material with floor coverings (RWFC)	RWFC 350 (at thickness 5-60 mm) according to EN 13892-7
Water content	21%
Flow rate according to Weber standard	Ring 50x22 mm 130-145 mm weber standard metod (ring 68x35mm) 210-230 mm EN 12706 (ring 30-50 mm) 120-130 mm
pH	appr. 11
Density	appr. 1900 kg/m ³ , final product hardened and dried by delivery with weber pump truck
Storage conditions	6 months in unopened package stored under dry conditions.
Package	20 kg bag, 960 kg per pallet (1200x800 mm) 1000 kg big bag and Bulk
Certifications	EPD (third-party verified environmental product declaration) Indoor Air Comfort GOLD verified (meets, among other things, the emission requirements for EMICODE ECI PLUS)

week after application of the leveling compound (When tiling, electric underfloor heating may normally be switched on only 28 days after after tile grout have been applied). Water-borne underfloor heating may be switched on at ambient temperature when applying the leveling compound. One week after

application, the heat can be raised gradually to operating temperature. However, be sure to ensure that weberfloor 140 Nova dries out before applying a floor covering.

Rising damp: In case of rising damp or where the material will be exposed to high moisture levels for a long time, contact Weber before choosing a material.

Preparation

During laying the temperature of the substrate should be above +10°C. The substrate should present a dry surface. The humidity of the work area should permit drying out and the RH value of the air should be <70%.

To determine the level of screeding that is required it is recommended that height surveillance is done prior to casting. To achieve the prescribed floor tolerances with regard to belliness (usually 2 m length) and slope, the substrate should be marked with height in points with for example weber height markers.

Prepare the substrate by removing dust and particles by for example vacuum cleaning. Fill up any holes in the substrate and along walls and bushings to make sure that the screed will not spread outside the designated area.

Use Weber dividers to divide the area of application into sections, if needed.

Pretreatment

The substrate should be clean and free from dust, cement rich skin, grease or other impurities, which might prevent adhesion. The surface tensile strength of the substrate should be minimum 0,5 MPa. Movement joints shall be arranged throughout the hole screeding compound and must not be covered.

Weak and flexible substrates, e.g. asphalt floor must be removed or separated by using a floating floor construction.

Weberfloor 4716 Primer should be applied on the substrate. The Primer shall be diluted according to the instruction on the primer packaging. During application the substrate temperature should be above +10°C. The surface of the substrate must be dry and the work area must provide drying conditions. If the primer requires more than three to four hours to dry, there is a risk of it not drying out correctly or that the substrate cannot absorb the primer properly. Recommended temperature in the area of application is +10 to +25 degrees. By floating construction, a geotextile, e.g. weberfloor 4940, is recommended as separating layer between the substrate and weberfloor 140 Nova. A plastic foil of suitable quality can also be used. Each gore should have an overlap of at least 200 mm. Apply a soft strip along walls and bushings. The geotextile/plastic foil is folded up on the wall against the soft strip to prevent the screed from penetration to the substrate. In residential areas, surface areas larger than 10 m² shall be reinforced. In public and commercial areas, the screed shall generally always be reinforced by floating constructions.

Mixing

weberfloor 140 Nova should be mixed with 4,2 litres of clean water per 20 kg bag (21%)

Application by hand. Use a bucket or a larger mixing container (75-100 l) suitable for 3-5 bags. First pour part of the mixing water into the bucket/container. Then add weberfloor 140 Nova. Add the remaining mixing water. Mix for at least 2 minutes with a blender fitted to a power drill.

Machine application. Use Weber automatic mixing machinery. Adjust the water amount corresponding to max 21%.

During mixing the water content of the compound should be checked by testing the flow rate. If the water content is

correct, the flow rate should be between 210 to 230 mm (weber ring 68x35 mm) 130-145 mm (ring 50x22 mm) or EN 12706 (ring 30-50 mm) 120-130 mm.

During the flow test it should also be checked that the compound is fully homogenized and free of separation. Never add more water than the amount required to achieve a finished result.

By application of slopes, the amount of water can be reduced.

Work instructions

The compound should be pumped or poured onto the substrate in gores. Each new gore should be laid into the previous as quickly as possible so that the compound forms an even coating. While working, the newly laid compound should be lightly smoothed with a wide toothed spatula or a trowel to remove any foam in the surface coat. Gore length should be adjusted to the capacity of the mixing pump and the layer thickness. As a general rule, the gore length should not exceed 8 to 10 meters. For dividing into suitable sections, Weber dividers are recommended. Before laying, take care to fit gully's with the necessary seals to avoid clogging sewage outlets. When semi-hardened the compound is easy to adjust or cut, so do not wait too long before making any necessary adjustments. Adjustments after the compound has hardened requires advanced grinding equipment.

The temperature in the room should be +10-25° C during laying and curing. Provide good ventilation and avoid drafts and sunlight

Please observe

Make sure that the screed as well as the entire floor construction below the screed is sufficiently dry prior to the application of the surface covering. Follow the guidelines in Swedish AMA Hus for the Swedish market or corresponding rules in the present market if outside of Sweden. Drying time before application of glued vinyl covering is 1-9 weeks depending on layer thickness. The drying times are valid at a climate is +20°C, 50% RH and air exchange. Concrete substrates should always be levelled with a low alkaline screed prior to the application of a bonded floor covering.

Equipment and tools may be cleaned by flushing water directly after using. Hardened material must be removed mechanically.

For moisture-sensitive coatings, such as hardwood floors, follow the manufacturer's instructions.

Concrete substrates should always be leveled before carpet laying to ensure that gluing takes place against a low-alkaline substrate. On freshly cast concrete that is often dense, we recommend at least 10 mm leveling to create a low-alkaline substrate that can absorb the moisture of the glue. On old concrete, a layer of at least 5 mm is recommended.

If weberfloor 140 Nova is laid as a liquid construction (for example on weberfloor 4940 Geotextile, or plastic foil), in good drying conditions, a primer with weberfloor 4716 Primer diluted 1: 5, primer: water is applied which is applied the day after laying the leveling compound. With longer opening hours, the risk of edging and cracking increases. At higher temperatures and lower RF, risk increases and vice versa.

Weberfloor 140 Nova is fire-rated as non-combustible, A2fl-s1 according to the Euroclass system for fire-fighting properties of construction products, where A2 means that the product is non-combustible, fl that the product is for floors and s1 that it meets the highest requirements for limited smoke development. Leveling compounds are not classified according to the fire technical class for a building's structural parts, for example EI 60.

Safety regulation

The product (dry mortar) gets corrosive in contact with water. Hard material does not pose any known danger to the environment or health.

For declaration of contents and other safety precautions, please study the Material safety datasheet.

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.