# WEBER 120 RENO SELF-LEVEL RENOVATION


- Fast, can be covered after 1-3 days
- Also as a floating structure ( > 20 mm levelling layer)
- Easily spread, fiber-reinforced
- 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
- 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

Pumpable, fast setting and enables fast coating cementitious fiber reinforced screed, especially for renovations on weak substrates. Layer thickness 5-30 mm. For pumpable applications minimum thickness 8 mm. With mesh reinforcement minimum thickness 12 mm (thickness up to 50 mm possible, extends covering time).

## AREA OF USE

Levelling interior floors, especially suitable for large uneven weak substrates. The screed can also be used as a floating structure, where the smoothing layer has no adhesion to the substrate.

## SUBSTRATE

Suitable substrates include: weak concrete, wood, plasterboard, plastic, vinyl and ceramic tiles, and the like. The substrate tensile strength must be ≥ 0.5 MPa. If the aforementioned requirement is not met or if the substrate is difficult to adhere to, or if the underlay varies, a floating floor structure must be made. The base must be strong enough, clean, firm and dust-free. There are separate instructions for treating the substrate; see weber MD 16 Primer product datasheet.

## PRODUCT SPECIFICATION

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| Material consumption | approx. 1.7 kg/m²/1 mm layer |
| Recommended layer thickness | 5-30 mm (50 mm possible, extends covering time). In pumpable applications minimum thickness 8 mm. |
| Layer thickness in floating constructions | ≥ 20 mm (mesh use is recommended) |
| 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 days depending on the layer thickness and the drying conditions up to 30 mm, covering time for thicker layers is longer (+23 °C, 50% RH) |
| Curing time for pedestrian traffic | 1-3 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. |
| Adhesion strength 28 days | > 2.0 MPa (adhesion to concrete K30, EN 13813) |
| Compressive strength class | C 30 (EN 13813) (+23 °C, 50% RH) |
| Flexural strength class | F 7 (EN 13813) (+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) |
| 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_1$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) | RWFC450. Can be used in offices. (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 |
| Storage conditions | Shelf life in sack is approx. 12 months from the date of manufacture (unopened package, dry space). |
| Package | 20 kg sack. 1000 kg large sack. Bulk in a silo. |
| GTIN-codes | 6415910032364 (20 kg)<br>6415910020149 (1000 kg)<br>6415910020187 (Bulk) |
| Certifications | CE, M1, EC1+, EPD, Key Flag Symbol |

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## MIXING

The product is mixed in clean water using a Weber-approved automatic mixer. A suitable amount of water is approx. 21% (of the dry weight of the screed),which is equivalent to 4.2 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 0.3 litres / 20 kg sack. Pot life in normal conditions is approx. 20 min after adding water. The temperature of the screed must be at least +10 °C. In low temperatures, use warm water (max. +35 °C). The flow properties of the screed are checked before and during pumping (further instructions from Weber). Excess water causes segregation, weakens the strength of the screed surface and slows down the drying.

## WORK INSTRUCTIONS

The building must have a roof, and windows and doorways must be closed. The substrate and air temperature during the levelling work 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 is ready for foot traffic 1-3 hours after levelling if the room temperature is approx. +23 °C and relative humidity 50%. If necessary, the surface can be sanded and smoothed (for example weber 3100 Fine levelling) at earliest 3-4 hours after levelling. The floor covering can be installed 1-3 days after levelling, depending on the layer thickness and the drying conditions. High moisture content of the substrate and poor drying conditions prolong the covering time. Floor covering installation must comply with humidity guidance values required by RYL and the coating manufacturer.

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

## COATING

The levelled substrate can be covered with for example ceramic or stone tiles, plastic or textile carpets, vinyl tiles, cork, parquet or coated with 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 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).

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

When choosing a coating material, note the requirements of the surface treatment manufacturer for the substrate. Moisture measurement and drying evaluation should be performed for the entire structure (substrate and screed) and the coating capacity should be evaluated accordingly. 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.

It is recommended to grind the screed surface before covering and 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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