How can major unevennesses be levelled quickly with extremely low area weight?

Renoplan System

The solution:

With the UZIN Turbolight-System.

"The UZIN Turbolight-System is a quick, ultra lightweight and flexible substrate renovation."

Ernst Wohlleb, Head of Technical Services UZIN

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Refurbishment measures often mean unexpected challenges for craftsmen and planners. Limited load or installation height, chips and suspended ceilings, for instance, require an adequate floor construction. The Turbolight-System from UZIN makes a flexible large area level compensation from 5 mm (grain diameter) to 300 mm possible without transitions, and the area loads on the supporting substrate are only roughly one third of the load of conventional screeds (approx. 100 kg/m² at 5 cm thickness). Compared to cementitious screeds the UZIN Turbolight-System is ready for covering 3 to 4 weeks earlier. Textile and elastic floor coverings and wood flooring can be installed on the set system using the standard methods. Particularly beneficial for refurbishing old buildings: With 10 dB the system even offers remarkable impact sound absorption (4 cm thickness according to DIN EN ISO 140-8).

1

Position at least 8 mm thick foam expansion strips around all vertical building elements such as walls, supports, pipes, platforms, door frames, etc. This prevents acoustic bridges and stresses resulting from rigid bonding to other building elements.

2

Prime the prepared substrate with UZIN PE 360 Plus using the UZIN nylon fibre roller. Alternatively, installation on a separating layer is also possible; the minimum thickness of UZIN SC 914 Turbo is then 3 cm.

3

Mixing UZIN SC 914 Turbo in the screed pump. Empty 2 full sacks of UZIN SC 914 Turbo in the mixer. Now add the required quantity of water (approx. 20 litres) and mix for two minutes. Finally pump to the workplace and apply quickly. UZIN SC 914 Turbo can also be mixed in the mixing trough or gravity mixer. Please refer to the separate processing instructions for additional information.

4

After mixing, the screed should be spread to the desired thickness using a rake and screed trowel before being and drawn level using a straightedge.

5

The surface is slightly compressed with the smoothing edge or trowel. With uneven substrates, spreading to granulate thickness (approx. 5 mm) is possible without problem.

6

Roll out UZIN RR 201 renovation fleece onto the hardened surface of UZIN SC 914 Turbo after a waiting time of at least 48 hours* and then cut to size with scissors. Lay the fleece loosely over the whole surface with at least 2 cm overlap between lengths.

7

Mix UZIN NC 195 thin screed with clear, cold water and apply with the specified amount (20 kg/m²). Crack inducer joints need to be created in the thin screed in the area of door cases. They can be closed with UZIN NC 182 before installing the floor covering or fine levelling. It may be necessary to apply a fine levelling compound such as UZIN NC 170 LevelStar, depending on the floor covering to be applied. In this case prime with UZIN PE 360 Plus first.

8

Textile and elastic floor coverings as well as wood flooring may be installed using the standard methods once the thins screed has reached its readiness for covering*.

* At 20 °C and 65 % relative humidity.

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