

## Rapid construction and renovation system

# UZIN TURBOLIGHT®-SYSTEM

Subfloor construction-system to create subfloors prior to the installation for all types of floor coverings

The UZIN Turbolight®-System combines mutually compatible materials to produce substrates prior to the installation of all types of floor coverings. The unique system allows lightweight, highly heat insulating and high-load capacity floors to be created.

### SYSTEM COMPONENTS:

- ▶ Lightweight mortar  
UZIN SC 914 Turbo / UZIN SC 912 Ergo
- ▶ Renovation fleece  
UZIN RR 201
- ▶ Thick layer levelling compound  
UZIN NC 195 / UZIN NC 167



### APPLICATION:

- 1 Prime the prepared substrate with an suitable UZIN primer. As an alternative, it can also be installed on a separating layer (only possible with UZIN SC 914 Turbo), in which case the minimum thickness for UZIN SC 914 Turbo is 3 cm.
- 2 Position a suitable foam expansion strip, e.g. UZIN ES 8/100, around all vertical building elements.
- 3 Mixing the lightweight mortar

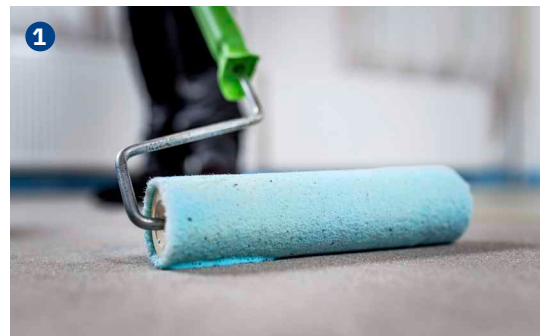
#### a) Mixing bucket:

Pour half of the required quantity of cold, clear mixing water into a suitable mixing bucket, e.g. Mixing Bucket 110 l. Add the lightweight mortar and the remaining amount of water and stir into a homogeneous compound using a suitably powerful electric mixing tool.

#### b) Screed pump:

Empty the contents of two bags of the lightweight mortar into the mixer. Then add the required quantity of water (approx. 22 litres with UZIN SC 914 Turbo / approx. 16 litres with UZIN SC 912 Ergo) and mix for two minutes. Then pump onto the installation area and apply quickly. Convey only with tank pressure. Do not use additional conveying pressure.

**Tip:** Apply the lightweight mortar always with the higher amount of water. In this case, the products are easier to install.



- 4 Apply the mixed mortar with a screed trowel to the desired layer thickness and level with a screed bar. If the substrate is uneven, spread to granulate thickness (approx. 5 mm with UZIN SC 914 Turbo/ approx. 2 mm for UZIN SC 912 Ergo) is possible without any problems in bonded areas..

**Tip:** It is recommended to compress the surface of the lightweight mortar with a screed trowel. Consequential of this results a denser, closed surface, where the thick layer levelling compound cant set down like on a open-pored surface.

**Tip:** Before laying out the UZIN RR 201 renovation fleece, the light levelling mortar can be prefilled with a "thick" mixed thick layer levelling compound UZIN NC 195 or UZIN NC 167. After a short drying time, work can continue as normal. This step prevents the "sagging" of the thick layer levelling compound in the coarse-pored lightweight mortar.

- 5 Roll out UZIN RR 201 renovation fleece onto the hardened surface of the light lightweight mortar after waiting at least 2 days\* and then cut to size with scissors. Lay the sheets loosely over the entire surface with an overlap of 2 - 3 cm.

**Tip:** If the thick layer levelling compound get pumped, it is helpful, to lay out a bitumen paper on the main routes (e.g. long corridors) so that the hose can slide on the surface more easier. Also the UZIN RR 201 is protected against shifting.

**Tip:** For area sizes > 100 m<sup>2</sup> the use of a parking angle profile recommended.

- 6 Mix UZIN NC 195 or UZIN NC 167 with clear, cold water and apply the quantity with the smoothing trowel or the WOLFF screed rake. Set the rake pins to 11 mm or for higher loads to 14 mm. For finishing the surface use the WOLFF Spike Roller (width 25 cm, spike length 31 mm).
- 7 Crack controlled joints need to be created in the screed within door frames. They can be repaired with UZIN NC 182 before installing the floor covering or levelling. It may be necessary to apply a 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 resilient floor coverings as well as wood flooring may be installed using the standard methods once the screed has fully hardened\* (see Technical Data Sheet UZIN Turbolight®-System). The floor covering should be installed as soon as possible. If its not installed within 7 days after the application of the thick layer levelling compound, prime with one coat of UZIN PE 400 (1:1 diluted with water) or UZIN PE 414 BiTurbo (for covering with wood flooring) 2 days after application.

\* At 20 °C and 65 % relative humidity.

