Product Datasheet

Cementitious lightweight mortar

UZIN SC 914 TURBO

Rapid lightweight mortar for creation of extremely heat-insulating, cementitious bonded substrates with thicknesses from 20 to 300 mm

MAIN APPLICATION FIELD:

- creation of dimensionally stable, bonded lightweight mortars in combination with the UZIN Turbolight®-System
- creation of dimensionally stable, bonded levelling fillers below standard screed constructions [DIN 18 560 - part 2 (1 bag per 200 l styrofoam granulate]
- for thicknesses from 20 mm

SUITABLE ON / FOR:

- lightweight screeds from 20 mm
- lightweight screeds on separating layer from 30 mm
- system component in the UZIN Turbolight®-System
- concrete
- wood-beamed ceiling and wood planks
- with seperating layer on all load-bearing existing substrates
- suitable for residential and commercial areas with all types of floor coverings

PRODUCT BENEFITS/FEATURES:

UZIN SC 914 Turbo is a ready-mix for the creation of substrates, that are quickly ready for covering. For all thicknesses as a carrying layer in the UZIN Turbolight®-System. Can be applied to grain-size thickness on even substrates without any problems. Pumpable. For interior use.

- no deformation and low stress
- very good thermal insulation

TECHNICAL DATA:

Packaging	paper bag
Pack size	80 l / approx. 21 kg
Shelf life	min. 9 months
Water quantity	10 - 11 l / 21 kg bag
Color	grey
Consumption	approx. 2.6 kg/m²/cm
Ideal application temperature	5 °C to 25 °C at ground level
Working time	approx. 30 minutes*
Ready for foot traffic	after approx. 12 hours*
Ready for covering	after approx. 48 hours*
Thickness	composite: 20 mm - unlimited, seperating layer: 30 mm - unlimited
UZIN Turbolight® system	approx. 11 l / 21 kg bag
Density	cured: approx. 350 kg/m³, powder: approx. 260 kg/m³
Heat transfer resistance	0.42 m²K/W (5 cm thickness)
Thermal conductivity	0.12 W/mK
Fire reaction	A2-s1 according to DIN EN 13 501-1

*At 20 °C and 65% relative humidity.

GEV-EMICODE EC 1 PLUS sehr emissionsarm

EPD

LEED® CONTRIBUTING PRODUCT

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EXTENDED APPLICATIONS:

- floor height differences
- creation of a slope insulating layer or a slope compensation

SUBSTRATE PREPARATION:

Test the substrate in accordance with applicable standards or notices and report any deficiencies. Possible deformations in the substrate should be inhibited as far as possible.

Bonded screeds:

Depending on condition, brush, abrade, grind or shot-blast the substrate, remove loose material and thoroughly vacuum the surface. Afterwards prime with UZIN PE 360 PLUS undiluted. Install UZIN Foam Espansion Strip 8/100 at all rising building elements.

Unbonded screeds or screeds on insulating layer:

Install UZIN Foam Espansion Sttrip 8/100 at all rising building elements. Properly clean the supporting substrate and install separating layer crease-free and with sufficient overlapping at the joints. Pay professional attention when covering heating pipes, as well as Foam Expansion Strips, bay joints and movement joints.

Special measures are necessars on wooden substrates. Respect the required waterproofing membrane in humidors.

The datasheets for other used products have to be observed.

APPLICATION:

Application with mixing bucket:

Prepare half of the amount of water required in a suitable mixing bucket. Pour UZIN SC 914 Turbo into this mixing bucket and stir into a homogenous compound with a mixer.

Application with screed pump:

1. Empty the contents of two bags of UZIN SC 914 Turbo into the mixer. Then add the required quantity of water (approx. 20 litres; Turbolight®-System approx. 22 litres) 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.
2. Only mix as much mortar as can be applied with approx. 30 minutes. In case of work interruptions, empty the mixer, pump and hoses immediately, and clean with water. Apply the mortar very quickly, and level it with a straight edge. Compaction is necessary. Take into account the very fast hardening.
3. If, e.g. due to low application temperatures, the readi ness for covering is to be determined by KRL measure ment in accordance with TKB data sheet 18 ‘KRL method’. Readiness for covering is reached at: 80 % RH. When the readiness for covering is determined by CM measurement follow the BEB Bulletin “CM measure ment work instructions” with the following adjustments:
   Net sample weight: 10 g
   Readiness for covering reached at: 10 CM-%

IMPORTANT NOTES:

- A shelf life of 9 months when stored in dry conditions, in the original packaging. Carefully and tightly reseal opened packaging and use the contents as quickly as possible.
- Best applied between 15 - 25 °C and relative humidity below 65%. Low temperatures, high humidity, little air circulation, dense substrates and large thickness will delay the setting and drying time. Whilst high temperatures and low humidity, strong air circulation and absorbent substrates will accelerate setting, drying and readiness for covering. Protect freshly applied areas from draughts, direct sunlight and sources of heat. Walking on the area should be reduced to a minimum.
- When installing the UZIN Turbolight®-System, immediately install the thick levelling levelling compound after UZIN NC 195 or UZIN NC 167 with UZIN RR 201 when UZIN SC 914 Turbo are ready for covering.
- UZIN SC 914 Turbo is technically equivalent to lightweight mortars with UZIN SC 910 (2 bags per 200 l styrofoam granulate).
- Do not mix with different screed cements or additives.
- Follow the generally acknowledged rules of the trade and technology for the installation of wood flooring and floor covering in respective of the applicable national standards (e.g. EN, DIN, OE, SIA, etc.)

SEALS OF QUALITY & ECOLABELS:

- Low chromate content acc. Regulation (EC) No. 1907/2006 (REACH)
- EMICODE EC 1 PLUS / Very low-emission
- European Model EPD
- Suitable for sustainable building certifications according to: DGNB, QNG, BNB, BREEAM, LEED

COMPOSITION:

Special cements, mineral aggregates, redispersible polymers and additives.

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Contains cement low in chromate acc. Regulation (EC) No. 1907/ 2006 (REACH). Cement produces strong alkaline on reaction with water. Avoid contact with skin and eyes. In the event of contact, rinse immediately with water. In the event of skin or eye irritation, seek medical advice. Use protective gloves. When mixing wear a protective dust-mask. Product contains synthetic polymer microparticles (SPM). Keep container tightly closed. Immediately collect spilled material from damaged containers and reuse or dispose of properly. Basic prerequisites for best possible indoor air quality following floor covering work are conformity to standards of the working conditions, as well as thoroughly dry substrate, primer and smoothing compound.

DISPOSAL:

Where possible, collect product residues and re-use. Product contains synthetic polymer microparticles (SPM). Avoid

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release to the environment. Do not allow to get into drains, sewers or ground. Empty paper packaging is recyclable. Collect waste product, mix with water, allow to harden, then dispose as Construction Waste.

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