Product Datasheet

Rapid, light weight mortar

UZIN SC 914 TURBO

Rapid, light weight mortar for highly thermal-insulating cement underlay

MAIN APPLICATION FIELD:

Ready-mix binder for producing lightweight screeds. Can be used in combination with UZIN RR 201 and UZIN NC 770 to form the UZIN Turbolight system. This produces a loadbearing substrate with high thermal insulation. Can be pumped with screed pumps

SUITABLE ON / FOR:

- Concrete slabs
- Wooden floors
- With seperating layer on all smooth and load-bearing existing substrates
- Light weight screed bonded to the slab
- Light weight layer on separating layer
- As UZIN system component for fast construction and renovation
- as UZIN Turbolight System for normal wear in domestic and commercial locations with all types of surface covering

PRODUCT BENEFITS/FEATURES:

UZIN SC 914 Turbo is a ready-mix for producing lightweight substrates, that are quickly ready for covering. For all thicknesses as part of the UZIN Turbolight®-System. Pumpable. For interior use

TECHNICAL DATA:

Packaging	paper bag
Pack size	80 l / approx. 21 kg
Shelf life	min. 6 months
Water quantity	10 - 11 l / 21 kg bag
Colour	grey
Consumption	approx. 2.6 kg/m³
Ideal application temperature	5 °C to 25 °C at ground level
Pot life	approx. 30 minutes*
Ready for foot traffic	after approx. 12 hours*
Ready for covering	after approx. 48 hours*
Thickness	bonded: 20 mm - unlimited, unbonded: 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.

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EXTENDED APPLICATIONS:

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

SUBSTRATE PREPARATION:

Test substrates in accordance with applicable standards and notices, and report reservations in the event of faults. Possible deformations in the substrate must be levelled as far as possible.

Observe the product data sheets of the other products used.

Bonded light weight screed:

Brush, sand or grind the substrate according to its properties, remove any loose material and vacuum the surface thoroughly, and then prime with UZIN PE 360 or codex FG 300 (unthinned). Fit UZIN edge sealing strips at all walls and columns.

Light screed layer on separating layer:

Fit UZIN edge sealing strips at all ascending points. Apply the UZIN PE-Foil free of folds and overlapping sufficiently at joint areas. Observe the proper coverage of pipes, edge strips, dimension of movement joints.

Further applications include for example light weight screed on wooden floors, adjusting tolerance and falls.

Special measures are necessary on wooden substrates. In wet areas, the standard for waterproofing must be considered.

APPLICATION:

Application by screed pump:

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.

Application by free-fall mixer:

One drum filling corresponds to half the bag contents. Add about one third of the required quantity of water to the mixer. Then empty half the contents of one bag of UZIN SC 914 Turbo into the mixer, and slowly add the remaining water quantity. Continue the mixing process until the mixture is homogenously mixed. The mortar consistency should be earth-moist to plastic.

Application by mixer bucket:

Prepare half of the amount of water required in a suitable mixing trough. Fill the UZIN SC 914 Turbo into this mixing trough and stir into a homogenous compound with electric stirrs.

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.

Readiness for covering:

At 20°C and max. 65% rel. humidity readiness for covering of UZIN SC 914 Turbo is reached for levelling compounds after 48 hours

IMPORTANT NOTES:

- May be stored in original container in dry conditions for up to 6 months.
- Reseal opened containers carefully and use contents as quickly as possible.
- Best applied at temperatures of 20 °C relative humidity below 65%. Hardening, drying and readiness for laying will be increased by low temperatures and high humidity, and reduced by high temperatures. Protect freshly laid areas against strong draughts, sunlight and heat radiation. Restrict foot traffic to the minimum.
- With the UZIN Turbolight System filler must be applied immediately after reaching the readiness for covering with UZIN NC 195 using UZIN RR 201.
- For UZIN SC 914 Turbo are technically equivalent mixtures of UZIN SC 910 and the specified for polystyrene granules (Product Data Sheet UZIN SC 910).
- The following standards, guidelines and notices should also be observed:

– DIN EN 13 813 ”Screed mortar and screed compounds”

– DIN 18 353 ”Screed work”

– DIN 18 195 ”Construction sealing”

– DIN 18 560 ”Construction screeds”

– ZDB notice ”Pipes, cables and cable channels on rough ceilings”

– ”Interface coordination for heated floor constructions”

SEALS OF QUALITY & ECOLABELS:

- Low chromate content acc. Regulation (EC) No. 1907/2006 (REACH)

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. Presents no physiological or ecological risk when fully cured. 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. 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.