PRODUCT DATA SHEET

Rapid, light weight mortar

UZIN SC 914 Turbo

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

Application areas:

Ready-mix of accelerated, special cement bonding agent and light additive of expanded polystyrol for the production of highly thermal-insulating cement laying substrates quickly ready for laying. In combination with UZIN RR 201 and UZIN NC 195 as covering layer, this produces a load-bearing substrate with high thermal insulation quickly ready for laying for all layer thickness ranges UZIN Turbolight System. Can be pumped with normal screed pumps.

Suitable for:

- 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

Suitable for use on:

- Concrete slabs
- Wooden floors
- With seperating layer on all smooth and load-bearing existing substrates

Product benefits / properties:

Hydraulically-hardening ready-mix of special bonding agent and light additive with largely contraction- and stress-free hardening. Very easy to work, thanks to the smooth consistency.

For mixing and pumping using usual screed equipment. Fast setting screed and therefore quickly ready for laying. A problem-solver for construction schedules. Also for the production of falls.

Composition: Special cements

- Deformation-free and low-shrinkage
- Very quickly ready for laying
- Very easy to work
- Low density
- Waterproof (note the moisture resistance of the upper levelling compound)
- For compound screeds and screeds on separating layer
- Fire rating DIN EN 13501-1: Non combustible A2-s1, d0
- Low chromate content

Technical data:

Packaging:	Paper bag
Package size:	80 litres / approx. 21 kg
Shelf life:	at least 6 months
Water quantity required: Turbolight System:	10 – 11 litres per bag 11 litres per bag
Dry raw density: Specific density (dry mortar):	approx. 350 kg / m³ approx. 260 kg / m³
Heat conductivity factor:	0.12 W / mK
Compressive strength:	0.5 N / mm²
Colour:	grey
Coverage:	approx. 8 m² at 1 cm per bag
Working temperature:	+ 5 °C to 25 °C at floor level
Working time:	approx. 30 minutes*
Set to foot traffic:	after 12 hours*
Ready for laying for UZIN levelling compounds:	after 48 hours*

*At 20 °C and 65 % relative humidity. See also "Ready for covering".

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UZIN SC 914 Turbo

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:

1. **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.
2. **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.
3. **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.
4. 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.
5. 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 instructions:

- 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"

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. When mixing wear a protective dust-mask. Use protective gloves. Presents no physiological or ecological risk when fully cured.

Disposal:

Do not allow dispersal into drains, sewers or ground. Empty paper bags are recyclable. Collect waste material, mix with water and allow to harden, then dispose as Construction Waste.

The above information is based on our experience and careful investigations. The variety of associated materials and different construction and working conditions cannot be individually checked or influenced by us. The quality of your work depends, therefore, on your own professional judgement and product usage. If in doubt, conduct a small test or obtain technical advice. Observe the installation recommendations of the covering manufacturer. The publication of this Product Data Sheet invalidates all previous Product Information. The respective updated version of this datasheet can be found on our Homepage under www.uzin.com.