

Special screed cement

UZIN SC 910

Special binder for the creation of lightweight substrates in interior and exterior areas in conjunction with the UZIN Turbolight System

Areas of application:

Hydraulically curing, cementitious special screed for specified styrofoam granulates to produce lightweight mortars with high compressive strength. For the creation of dimensionally stable substrates in interior and exterior areas in conjunction with the UZIN Turbolight System up to a thickness of max. 30 cm as well as under precast screeds and screed construction.

Suitable for /on:

- ▶ Thermozell of Thermozell Co. (200 l sack)
- ▶ Thermobound of EPS Leichtbeton GMBH Co. (200 l sack)
- ▶ other styrofoam granulates upon request
- ▶ as lightweight mortar and system component the UZIN Turbolight System or on separating membranes (2 sacks per 200 l styrofoam granulate)
- ▶ as lightweight mortar under precast screed constructions (2 sack per 200 l styrofoam granulate) up to max. 2 kN single or surface load
- ▶ as lightweight mortar under screed constructions conforming to standards (DIN 18 560 – Part 2) (1 sack per 20 l styrofoam granulate)
- ▶ concrete subfloors
- ▶ wooden beam ceilings
- ▶ substrates with mixed patches

Product benefits / features:

UZIN SC 910 can be mixed and pumped with common screed pumps and be easily installed as a lightweight mortar. Ready for covering after 2 days for UZIN thin screeds NC 195 and SC 995.*

Composition: Special cements

- ▶ Very easy to use
- ▶ Waterproof
- ▶ Ready for covering with UZIN thin screeds NC 195 and SC 995 after 2 day with UZIN Turbolight System
- ▶ Ready for covering for precast screed constructions:
 - up to 5 cm thickness after 2 days
 - over 5 cm thickness at max. 10 CM-% residual moisture



- ▶ Ready for covering for screed constructions conforming to the standards described after 2 days
- ▶ Low chromate content
- ▶ EMICODE EC 1 R PLUS/very low-emission*
- ▶ Fire behaviour according to DIN 4102:
 - A2 – no flammability (Thermobound)
 - A2 – no flammability (Thermozell)
 - B2 – normal flammability (only with Thermozell 250)

*This classification refers to the screed cement; mixes with styrofoam granulate are not EMICODE-certified.

Technical data:

Packaging:	paper sack
Packsize:	25 kg
Mixing ratio:	2 sacks for 200 l styrofoam granulate (Thermozell and Thermobound)
Required water quantity:	22 – 23 l per 200 l (Thermozell) 22 – 23 l per 200 l (Thermobound)
Colour:	grey
Consumption:	A mix of 50 kg UZIN SC 910, 200 l styrofoam granulate and 23 l water yields approx. 180 l lightweight mortar
Working temperature:	+10 °C to 25 °C at floor level
Mixing time:	2 – 3 minutes
Working time:	approx. 60 minutes*
Set to foot traffic:	after 1 day*
Ready for covering:	after 2 days for UZIN thin screeds NC 195 and SC 995*
Composite thickness (Light levelling mortar):	5 – 300 mm; On separating membranes: 30 – 300 mm

*At >10 °C and 80 % relative humidity.

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Substrate preparation:

Test the substrate in accordance with applicable standards and bulletins and report any deficiencies. Possible deformation of the substrate must be completed as much as possible.

Refer to the product data sheets for the products used.

Application as light levelling mortar as composite:

Depending on condition, brush, abrade, grind or shot-blast the substrate, remove loose material and thoroughly vacuum the surface. Follow by priming undiluted with UZIN PE 360. Install UZIN expansion strips 8/100 on all rising components.

Application as lightweight mortar on separating membranes:

Install UZIN expansion strips 8/100 on all rising components. Thoroughly clean load-bearing substrate, install separating layer without folds and with sufficient overlap in the joint area. Make proper provision for pipe-coverings as well as edging-strips, bay-joints and movement joints.

Processing as a lightweight mortar:

1. A) As lightweight mortar in UZIN Turbolight System:
Pour contents of a 200 l bag of styrofoam granulate into the mixer of the screed pump. Then add 2 bags of UZIN SC 910. Now add the required quantity of water (22 – 23 l) and mix for 2 minutes.
 - B) As lightweight mortar under screed constructions:
Pour contents of a 200 l bag of styrofoam granulate into the mixer of the screed pump. Then add 1 bags of UZIN SC 910. Now add the required quantity of water (11 – 12 l) and mix for 2 minutes.
 - C) As lightweight mortar under precast screeds:
Pour contents of a 200 l bag of styrofoam granulate into the mixer of the screed pump. Then add 2 bags of UZIN SC 910. Now add the required quantity of water (22 – 23 l) and mix for 2 minutes.
Then pump to the place of the installation. Pump only with tank pressure; otherwise, segregation may occur during pumping.
2. Mix only as much mortar as can be applied within approx. 1 hour. During work breaks, empty and clean the mixer, pump and hoses immediately. Deliver, distribute, compact and smooth the screed very quickly. Take into account the screed is rapid setting.
 3. If, for example, readiness for covering shall be determined through CM measurements because of low processing temperatures, the procedure must principally follow the BEB Bulletin "CM Measurement Work Instructions" with the following adjustments:
Net sample weight: 10 g
Readiness for covering reached at: 10 CM-%

Important notes:

- ▶ Shelf life at least 6 months in original packaging when stored in dry conditions. Tightly re-seal opened packaging and use the contents as quickly as possible.
- ▶ Optimal installation conditions are at 20 °C and a relative humidity below 65 %. Low temperatures, high humidity and greater thickness will delay whilst high temperatures will accelerate setting, drying and readiness for covering.
- ▶ The temperature of room, substrate and additive must not fall below +10 °C and not exceed +25 °C.
- ▶ Only install lightweight mortar in dry, closed rooms and protect against draughts.
- ▶ When UZIN Turbolight system is immediately after the reach of the maturity with UZIN NC 195 under Exertion of UZIN RR 201 leave out.
- ▶ To Light smoothing mortar UZIN with SC 910 (2 packs a 200 l polystyrene granules), technical equivalent UZIN SC 914 Turbo.
- ▶ Do not mix with other screed cements or screed additives.
- ▶ Follow the generally acknowledged rules of the trade and of technology for screed installation of the respective applicable standards (e.g. EN, DIN, VOB, Ö-Norm, SIA, etc.)
- ▶ The following standards and bulletins, amongst others, represent supporting information and are recommended for special attention.
 - DIN EN 13 813 "Screeds material and floor screeds"
 - DIN 18 353 "Working with screeds"
 - DIN 18 195 "Sealing buildings"
 - DIN 18 560 "Screeds in the building industry"
 - ZDB bulletin "Pipes, cables and cable ducts on bare floors / ceilings"
 - "Interface coordination with 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. EMICODE EC 1 R PLUS – very low emission. Within the scope of current knowledge, gives off no emissions of formaldehyde, hazardous materials or volatile organic compounds (VOC).

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 dispersal into drains, sewers or ground. Empty paper bags are recyclable. Collect waste material, mix with water and allow to harden, then dispose of as Construction Waste.