

Gypsum Rapid Construction and Renovation System

UZIN TURBOLIGHT®-SYSTEM CA

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

PROBLEM SOLVER AS SYSTEM CONFIGURATION:

- ▶ For limited load-bearing capacity (statics) as light screed construction
- ▶ For limited build-up height as thin screed construction
- ▶ For sagging ceilings as supporting compensating construction
- ▶ For rapid screed construction when facing tight deadlines



APPLICATION:

- ▶ On wooden beam ceilings and floorboards
- ▶ On concrete subfloors
- ▶ For demands of home and office area use (see "Load recommendations" table)
- ▶ Bonded and on separating layer
- ▶ For all types of floor covering (except wood blocks and solid wood flooring)
- ▶ For all types of ceramic tiles and natural stone – also for large dimensions
- ▶ Beneath hot water and electrical underfloor heating
- ▶ Embedding thin-layer hot water underfloor heating systems
- ▶ Embedding of underfloor temperature control systems with electrical heating conductors

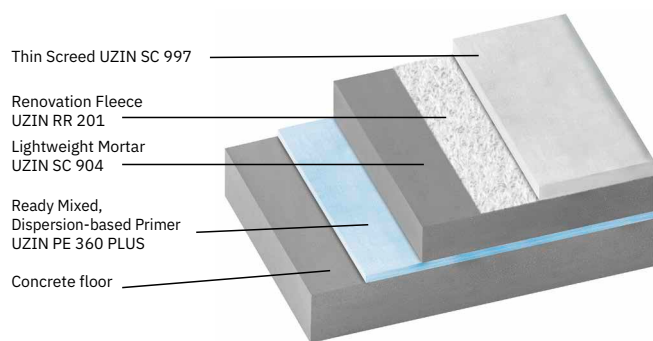
PROPERTIES:

- ▶ System composition from the bare floor to the floor covering
- ▶ Rapid construction system
- ▶ Non-marking system construction - more favourable occupational safety for installers
- ▶ Low weight per area
- ▶ Load recommendation up to 2 kN point load and 3 kN/m² distributed load
- ▶ Good sound absorption according to DIN EN ISO 16251-1
- ▶ Max. area of application 200 m²
Max. side length/bonded: 15 m*
Max. side length on separating layer: 10 m*
- ▶ For interior use

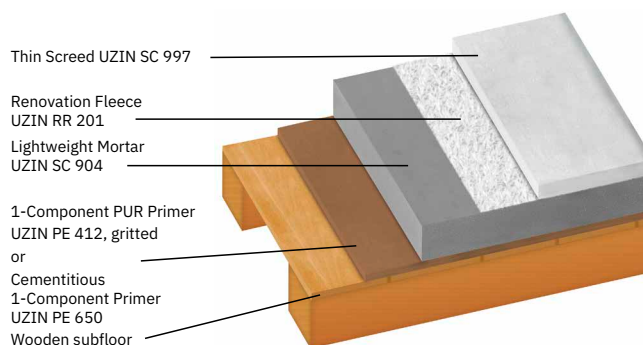
*See "Important notes".



UZIN TURBOLIGHT®-SYSTEM ON WOODEN SUBFLOORS:



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UZIN TURBOLIGHT®-SYSTEM CA – TECHNICAL DATA OF THE SYSTEM COMPONENTS

	UZIN SC 904	UZIN SC 997	UZIN RR 201
Min. thickness, bonded	20 mm	–	–
Min. thickness, floating	30 mm	–	–
Max. thickness	300 mm	–	–
Specific density (cured)	0,35 kg/l	2,0 kg/l	–
Consumption (dry mortar)	2,6 kg/m ² /cm	1,8 kg/m ² /mm	–
Consumption (in system)	2,6 kg/m ² /cm	20 kg/m ²	by m ²
Fire reaction (DIN EN 13501)	E _{fl}	A1 _{fl}	A2 ¹⁾
Required water quantity	8 – 9 l/bag	approx. 4 l/bag	–
Working time	approx. 30 min.*	30 – 40 min.*	–
Set to foot traffic after	approx. 12 h*	approx. 8 h*	immediately
Pack size	80 l/21 kg bag	25 kg bag	1,00 x 60 m

*At 20 °C and 65% relative humidity.

¹⁾DIN 4102

UZIN TURBOLIGHT®-SYSTEM CA – RECOMMENDED LOADS

Covering	Quantity UZIN SC 997	Max. distributed load	Max. point load	Category (DIN EN 1991)
All types of floor covering (except wood blocks & solid wood flooring)	min. 20 kg/m	3 kN/m ²	2 kN	A, B

Obtain technical application advice for higher load requirements.

UZIN TURBOLIGHT®-SYSTEM CA – AREA WEIGHT & THICKNESSES

Installation height total	Installation height ¹⁾ UZIN SC 904	Quantity used ²⁾ UZIN SC 997	Area weight total
~ 4 cm	3 cm	20 kg/m ²	approx. 33,5 kg/m ²
~ 6 cm	5 cm	20 kg/m ²	approx. 40,5 kg/m ²

¹⁾The area weight increases by 3.5 kg/m² for each additional centimetre of installation height

²⁾20 kg UZIN SC 997 >> 23 kg/m² cured thin screed.

UZIN TURBOLIGHT®-SYSTEM CA – TECHNICAL DATA

Properties	Value	Proof
Sound absorption according to DIN EN ISO 16 251-1	16 dB (48 mm build-up height)	Test report Uzin Utz
Surface tensile strength	min. 1 N/mm ²	Test report Uzin Utz

READINESS FOR COVERING* OF THE LIGHTWEIGHT MORTAR FOR UZIN SC 997

Thickness UZIN SC 904: up to 30 cm	Time till ready for covering ¹⁾ : 2 days
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* At 20 °C and 65 % relative humidity.

¹⁾ Flooring should be installed within 1 – 2 days after readiness for covering of the lightweight mortar.

READINESS FOR COVERING* OF UZIN SC 997

Application amount UZIN SC 997	Covering type	Time till ready for covering
20 kg/m ²	All types of floor covering (except wood blocks & solid wood flooring)	5 days

* At 20 °C and 65 % relative humidity.

IMPORTANT NOTES:

- ▶ Obtain technical application advice when covering with natural stone.
- ▶ Due to the low thermal conductivity of UZIN SC 904, special attention must be paid to high temperature differences, e.g. due to extreme exposure to light in conservatories.
- ▶ If there is uncertainty about the readiness for covering of UZIN SC 904 under unfavourable climatic conditions, its moisture content can be determined on site by CM measurement. With a weight of 10 g mortar, the readiness for covering is reached when the moisture content is a maximum of 10 CM %.
- ▶ The materials used in the UZIN Turbolight®-System CA may exhibit hairline fissuring. Because of the long-fibre reinforcement they do not affect the functional capability of the overall system.
- ▶ Only static loads are to be considered for the loads released here. Dynamic loads must be considered separately.
- ▶ The individual product data sheets for the products used can be found on the www.uzin.com website.
- ▶ Hollow sound can also occur in bonded constructions. This is system-specific for the UZIN Turbolight®-System CA and does not indicate a defect.
- ▶ Before installing the UZIN Turbolight®-System CA, all finishing work should be completed, otherwise special protective measures are required.
- ▶ Joint formation: Field boundary joints can be made by cutting into UZIN SC 997 after ready for foot traffic, at the latest after 48 hours. Without thermal stress, these joints can be closed with force fit before the floor covering is installed. In case of thermal loads, application consulting should be obtained.
- ▶ If textile and elastic floor coverings are used, levelling may be necessary.
- ▶ Fastenings for installations on the UZIN Turbolight®-System must be carried out directly on the load-bearing ceiling. In the case of bonded constructions, installation can be carried out using the UZIN Turbolight®-System. In the case of constructions on a separating layer, installation must be carried out directly on the loadbearing substrate after removal of the affected floor section, observing suitable sound insulation measures.

SAMPLE SYSTEM BUILD-UP FOR DIFFERENT FLOOR COVERINGS / WOOD FLOORING

TURBOLIGHT®-SYSTEM	UZIN SC 997 Gypsum Thi Screed Consumption ~ 20 kg/m ²	
	UZIN RR 201 Apply Renovation Fleece over whole area, overlap at least 1 cm	
	UZIN SC 904 Gypsum Lightweight Mortar / UZIN Randdämmstreifen 8/100 Spreading thickness min. 3 cm (on separating layer), tapering to granular size (bonded), consumption approx. 2,6 kg/m ² /cm	
PRIMER	UZIN PE 360 PLUS Ready Mixed, Dispersion-based Primer Spreading with foam roller, consumption approx. 100 – 150 g/m ²	UZIN PE 412 1-Component PUR-Primer, sanded Spreading with nylon fibre roller, consumption approx. 150 g/m ² or UZIN PE 650 Cementitious 1-component Primer spreading with smoothing trowel approx. 80 – 280 g/m ²
SUBFLOOR	Durable dry load-bearing substrate Concrete floor	Durable dry load-bearing substrate Wooden beam ceiling