

Low-stress cementitious thin screed

# UZIN SC 995

Self-levelling cementitious thin screed for commercial areas

## Areas of application:

UZIN SC 995 is a hydraulically curing, cementitious screed for thickness between 3 mm to 30 mm. Suitable for producing low stress substrates subject to normal wear. It can be pumped and can also be used in conjunction with the UZIN Turbolight System. For interior use only.

Suitable for /on:

- ▶ Bonded thin screeds
- ▶ Floating screeds on separating membranes
- ▶ Embedding thin hot-water underfloor heating systems
- ▶ Embedding of electrical underfloor heating systems
- ▶ Base course for UZIN Turbolight System, max. point load 2 kN, see technical data sheet
- ▶ Subsequent installation of textile and resilient floor covering (fine-levelling may be necessary)
- ▶ Subsequent installation of multi-ply wood flooring
- ▶ Subsequent installation of ceramics and natural stone floor coverings
- ▶ Normal wear in residential and commercial areas, e.g. in office buildings, private residences or retirement homes
- ▶ Traffic from chair castors according to DIN EN 12 529
- ▶ Concrete subfloors, cementitious, calcium-sulphate, magnesia and xylolite screeds
- ▶ OSB-boards and chipboards up to max. 10 mm, on wood strip flooring only in combination with the UZIN RR 201 up to max. 10 mm



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Uzin Utz AG Dieselstraße 3 D-89079 Ulm	
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<b>EN 13 813:2002</b> Cementitious levelling compound for substrates in interior locations <b>EN 13 813:CT-C25-F5</b>	
Reaction to fire	<b>A1 fl</b>
Release of corrosive substances	<b>CT</b>
Compressive strength	<b>C 25</b>
Flexural strength	<b>F 5</b>



**Composition:** Special cements, mineral aggregates, redispersible polymers liquifiers, additives.

- ▶ Thickness range from 3 – 30 mm
- ▶ Superb flow and pumping properties
- ▶ Low-stress
- ▶ Good absorption
- ▶ Low chromate content
- ▶ EMICODE EC 1 R PLUS/very low-emission

## Technical data:

Packaging:	paper sack
Packsize:	25 kg
Shelf life:	min. 6 months
Required water quantity:	4.5 – 5 l / 25 kg sack
Colour:	Dark grey
Coverage:	approx. 5 m <sup>2</sup> at 3 mm per bag
Coverage: (UZIN Turbolight System):	approx. 1.1 m <sup>2</sup> at 1 mm per bag
Minimum working temperature:	10 °C
Working time:	20 – 40 minutes*
Set to foot traffic:	after 2 – 4 hours*
Readiness for covering:	3 mm: after 24 hours*; 10 mm: after 5 days*
Strength class (DIN EN 13 813):	C 25 / F 5

\* At 20 °C and 65 % relative humidity (see also "readiness for covering").

UZIN | A brand of Uzin Utz Group

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## Product benefits / features:

UZIN SC 995 is a hydraulically setting, low tension screed, suitable for a range of different thicknesses. In conjunction with dispersion primers it produces thin bonded screeds, from just 3 mm. It can be used for a large range of applications and combines excellent quality and value for money, especially for commercial projects.

## Substrate preparation:

The substrate must be firm, load-bearing, dry, free of cracks, clean and free of materials interfering with bonding (dirt, oil, grease). Test the substrate in accordance with applicable standards or notices and report any deficiencies. Any possible deformation of the substrate must be prevented.

Refer to the product data sheets for other products used.

## Installation for bonded screeds:

Depending on condition, brush, abrade, grind or shot-blast the substrate, remove any loose material and thoroughly vacuum the surface. Then apply a suitable dispersion primer from the UZIN range and allow to dry completely. For thicknesses over 10 mm prime with UZIN PE 460 and whilst wet apply a thin coat of UZIN Fine Sand. Vacuum any excess quartz sand after curing.

## Installation for floated screeds on separating membranes:

Ensure the substrate is load-bearing and cleaned thoroughly. Remove any loose material and vacuum. Install UZIN expansion strips on all vertical components. Incorporate the separating membranes without folds and with adequate overlap at the joints (minimum thickness of 25 mm). With UZIN RR 201 the minimum thickness is 20 mm.

## Application:

1. Pour 4.5 – 5.0 litres of cold, clean water into a clean container. Add sack contents (25 kg) into the water whilst stirring vigorously until a creamy and lump-free compound is obtained. Use a drill or mixer fitted with a UZIN Mixing Paddle.
2. Pour compound onto the substrate and spread evenly with a smoothing trowel or UZIN screed rake. The flow and surface can be improved even more by aerating with the UZIN spike roller. Apply the desired thickness in one application, however at least 3 mm for bonded screeds and 25 mm for floated screeds on separating membranes.

## Consumption information:

Thickness	Approx. coverage per 25 kg sack
3 mm	5 m <sup>2</sup>
5 mm	3 m <sup>2</sup>
10 mm	1 m <sup>2</sup>

Thickness	Readiness for covering
3 mm	24 hours*
per cm	approx. 5 days*

\* At 20 °C and 65 % relative humidity.

As a rule of thumb it can be assumed that readiness for covering is reached after approx. 24 hours\* up to thicknesses of 3 mm. The drying time is approx. 5 days\* for each additional cm of thickness.

\* At 20 °C and 65 % relative humidity.

## Important notes:

- Shelf life at least 6 months in original packaging when stored in dry conditions. Carefully and tightly re-seal opened packaging and use the contents as quickly as possible.
- Optimum conditions at 15 – 25 °C and relative humidity below 65 %. Low temperatures, high humidity, high thickness and non-absorbent or blocked substrates will delay setting, drying and readiness for covering. High temperatures, low humidity and absorbent substrates accelerate setting, drying and readiness for covering. In summer, store in cool conditions and use cold water.
- Expansion, movement and perimeter joints in the substrate must be reflected through to the surface. Fit UZIN Foam Expansion Strips to any adjoining vertical structures to prevent ingress of the compound into the connection joints. Expansion strips are generally necessary for thicknesses over 5 mm. On wooden substrates the expansion strip must be completely removed after levelling work.
- The substructure of wooden floors must be dry to prevent damage due to dampness through rotting or mould formation. Adequate ventilation or rear-ventilation must be provided especially when installing impermeable flooring, e.g. by removing the existing expansion strip or by installing special skirting with vent openings.
- Where thicknesses exceed 10 mm, an epoxy resin primer such as UZIN PE 460, gritted, is required.
- Attention must be given to installing the film without wrinkles and in tub-fashion, similar to the processing of flow screeds on separating membranes.

- ▶ Do not use in exterior or wet areas.
- ▶ Wet rooms, such as residential baths, require suitable sealing with codex products before installing the tiles. Consult technical advice if required.
- ▶ Once dry complete subsequent work as soon as possible to avoid crack formation.
- ▶ UZIN SC 995 must be primed with UZIN PE 414 Turbo from a thickness > 10 mm for wood flooring work (multiply wood flooring only) (application with spring spatula, consumption approx. 50 – 60 g/m²).
- ▶ Do not use as wearing floor covering or wearing surface; always apply a top covering.
- ▶ To avoid corrosion the smoothing compound must not get between heating pipes and insulation. This especially applies to pipes made of galvanised steel. The insulation may only be removed after the smoothing work has been completed.
- ▶ Follow the generally acknowledged rules of the trade and the technology for the installation of screed, wood flooring and floor covering of the respective applicable standards (e.g. EN, DIN, Ö-standard, SIA, etc.).
  - DIN 18 365 "Working with floor coverings", B 2236
  - DIN 18 356 "Working with wood flooring", B 2218
  - DIN 18 352 "Tile and slab work"
  - DIN 18 353 "Working with screeds"
  - DIN 18 560 "Screeds in the building industry"
  - TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation"
  - BEB publication "Assessment and preparation of substrates"
  - BEB bulletin: "Notices for the installation of large size ceramic tiles and plates, concrete, natural and artificial stone on calcium sulphate-bonded screeds"
  - ZDB Bulletin: "Notes on carrying out composite sealing with coverings of tiles and slabs for interior and exterior use"
  - TKB publication "Technical description and processing of floor levelling compounds"

## 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/plastic containers are recyclable. Collect waste material, mix with water and allow to harden, then dispose as Construction Waste.