

Cementitious coating

UZIN SC 993

Self-levelling cementitious coating for industrial and commercial areas, thicknesses from 4 to 10 mm

Areas of application:

Cementitious coating for producing slip resistant and highly wear-resistant floor finishes where surface appearance is a secondary consideration. Ideal for use in industrial and commercial areas due to excellent self-smoothing, high strength and low stress formulation.

Suitable for:

- ▶ loads in commercial and industrial applications, e.g. heavy traffic within industrial halls, shops, storage halls (with forklift traffic according to DIN 18 560, Part 7, Table 1, load groups II and III)
- ▶ producing immediately usable floors in areas with intensive use
- ▶ subsequent finishing with suitable varnishes and impregnation agents
- ▶ loads from floor conveyors
- ▶ traffic from chair castors according to DIN EN 12 529

Suitable for use on:

- ▶ Substrates with surface tensile strength of min. 1.5 N/mm², without drive-on traffic min. 1.0 N/mm²



Product benefits / features:

UZIN SC 993 is distinguished by very high strength and superior flow characteristics. Can be used immediately as a floor finish, providing high load capacity and slip-resistance (R 10). Due to its resistance to oil, fuels, moisture and road salt, UZIN SCC 993 can be used in commercial environments such as shops or garages as well as industrial locations which contain conveyors or fork lifts.



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Uzin Utz AG Dieselstraße 3 D-89079 Ulm	
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EN 13 813:2002 Cementitious levelling compound for substrates in interior locations EN 13 813: CT-C40-F7-A6	
Reaction to fire	A2fl-s1
Release of corrosive substances	CT
Compressive strength	C40
Flexural strength	F7
Wear resistance	A6



Composition: Special cements, mineral aggregates, dispersible polymer, and high-performance liquifiers and additives.

- ▶ Superior flow characteristics
- ▶ Coating can be used immediately
- ▶ High load-capacity
- ▶ High abrasion resistance
- ▶ Resistant against moisture and road salt
- ▶ Can be pumped
- ▶ 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:	4.75 – 5.0 litres per 25 kg sack
Colour:	grey
Coverage:	approx. 3.7 m ² at 4 mm per bag
Minimum working temperature:	10 °C
Ideal working temperature:	20 °C
Working time:	approx. 40 minutes*
Set to foot traffic:	after approx. 4 hours*
Set to traffic / recoated:	after 3 days
Wear resistance:	A6 according to DIN 13 813
Slip resistance:	R10 according to DIN 51 130
Fire class:	A2fl-s1 according to DIN EN 13 501-1

*At 20 °C and 65 % relative humidity and a substrate temperature of 18 °C. See also "readiness for covering".

Substrate preparation:

The substrate must be sound, load-bearing, dry, free from cracks, clean and free from materials (dirt, oil, grease), that would impair adhesion. Substrates must be shot-blasted or milled and vacuumed. Test the substrate in accordance with applicable standards and bulletins and report any deficiencies.

Any adhesion-reducing or unstable layers, e.g. release agents, loose adhesives, compounds, covering or paint residues etc. must be removed, e.g. by brushing, abrading, grinding or shot-blasting. Thoroughly vacuum loose material and dust. The substrates must be primed with 2-component epoxy resins, UZIN PE 460 or UZIN PE 480 and sanded (quartz sand 0.3 – 0.8 mm, 3 kg/m²).

Refer to the product data sheets for other products used.

Processing:

1. Pour 4.75 – 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.
To avoid flushed out, it is necessary, to take always the same amount of mixing water.
2. Pour compound onto the substrate and spread evenly with a smoothing trowel or rake, e.g. the WOLFF Ergo Tool rake. The flow and surface can be improved even more by aerating with the UZIN spike roller. Apply the desired thickness in one application. To prevent traces from rakes or spike rollers, we recommend smoothing the surface at the end with a smooth wiping blade.

Surface treatment:

To reduce the risk of contamination we recommend treatment with the 2-Component silicate sealer UZIN SC 1800 Finish. After initial treatment standard cleaning and maintenance should be routine.

Beyond this, foot-wiping zones and protective mats from polycarbonate are recommended in areas exposed to chair castors.

Please also observe technical information sheet "Surface appearance of coating UZIN SC 993".

Consumption information:

Thickness	Approx. coverage per 25 kg sack
4 mm	3.7 m ²
10 mm	1.5 m ²

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, 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.
- ▶ UZIN SC 993 can not be used in conjunction with UZIN RR 201 renovation fleece.
- ▶ Before installing UZIN SC 993 the substrate must be primed with UZIN PE 460 or UZIN PE 480 and sanded.
- ▶ To avoid puddle formation we recommend the spray extraction cleaning.
- ▶ 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. Cut UZIN expansion stripes on the edges and stick together with a tape to avoid cracking.
- ▶ Can be pumped with continuously mixing spiral pumps, e.g. from manufacturers such as m-tec, P.F.T. and others. Use subsequent agitator.
- ▶ Protect freshly installed areas from draughts, direct sunlight and sources of heat. Cementitious coating on soft or tacky substrates tends to form cracks. These soft or tacky layers must therefore be removed before applying smoothing compounds.
- ▶ The fluctuating of the amount of water lead to significant difference to the optic of the surface. This effect can be reduced by weigh the amount of water.
- ▶ 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 technology for the installation of floor covering and screed installation of the respective applicable national standards (e.g. EN, DIN, ÖNORM, SIA, etc.). The following standards and bulletins represent supporting information and are recommended for special attention:
 - TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation"
 - BEB publication "Assessment and preparation of substrates"

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:

Do not dispose of into the sewer system, open water or the soil. Paper sacks can be recycled when emptied and free from any residues. Collect product residues, mix with water, allow to harden and dispose of as construction waste.