

Cementitious mineral coating

UZIN SC 993

Self smoothing, directly usable coating for creation of bonded substrates with thicknesses from 4 to 10 mm

MAIN APPLICATION FIELD:

- ▶ creation of a highly wear-resistant floor finish where surface appearance is a secondary consideration
- ▶ for thicknesses from 4 to 10 mm

SUITABLE ON / FOR:

- ▶ calcium sulphate or cementitious screeds, concrete
- ▶ magnesia screeds
- ▶ substrates with surface tensile strength of min. 1.5 N/mm² or 1.0 N/mm² without drive-on traffic
- ▶ areas with very heavy vehicle traffic
- ▶ exposure to castor wheels in accordance with DIN EN 12 529
- ▶ very high wear in commercial and industrial locations, e.g. industrial halls, warehouses



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EN 13813:2002	
Cement based mineral coating for substrates in interior locations	
EN 13813: CT-C40-F7-A6	
Reaction to fire	A2fl-s1
Release of corrosive substances	CT
Compressive strength	C40
Flexural strength	F7
Wear resistance	A6

PRODUCT BENEFITS/FEATURES:

UZIN SC 993 is high strength yet low stress with extremely good flow properties. It produces a highly wear-resistant floor finish with good slip resistance (R10) within industrial and commercial areas subject to heavy vehicle traffic. Pumpable, for interior use.

- ▶ directly usable floor finish
- ▶ heavy duty, high abrasion resistance
- ▶ resistant against oil, fuel, moisture and de-icing salt

TECHNICAL DATA

Packaging	paper bag
Pack size	25 kg
Shelf life	min. 6
Water quantity	4.75 - 5.0 litres per 25 kg bag
Colour	grey
Consumption	approx. 1.7 kg/m ² per mm thickness
Pot life	max. 40 minutes*
Ready for foot traffic	after approx. 4 hours*
Minimum application temperature	10 °C at ground level
Loadable	after 3 days*
Flow ring spread	approx. 134 mm ± 5 mm
Abrasion resistance	A6 according to DIN 13 813
Slip resistance	R11 according to DIN 51 130
Slip resistance with UZIN SC 1800 Finish	R10 according to DIN 51 130
Fire reaction	A2fl-s1 according to DIN EN 13 501-1

*At 20 °C and 65% relative humidity, with 18 °C substrate temperature.



SUBSTRATE PREPARATION:

The substrate must be sound, load-bearing, dry, free from cracks and free from materials (dirt, oil, grease) that would impair adhesion. Cement and calcium sulphate screeds must be abraded and vacuumed. Test the substrate in accordance with applicable standard or notices 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. Use a suitable primer from the UZIN Product Guide according to the type and condition of the substrate. Allow any primer that is applied to dry completely.

The datasheets for other used products have to be observed.

APPLICATION:

1. Put 4.75 - 5 litres of cold, clear water into a clean container. Sprinkle in the contents of the bag (25 kg) while mixing vigorously until a smooth and lump-free compound is obtained. Use a mixing device fitted with a UZIN Mixing Paddle. Always use the same amount of mixing water to avoid leaching.
2. Pour the compound onto the substrate and spread evenly with a smoothing trowel or a screed rake. The flow and surface can be improved by removing air using a spike roller. If possible, apply to the desired thickness in one coat. To avoid rake marks, it is recommended to trowel the surface with a smooth rake in the end.

SURFACE TREATMENT:

UZIN SC 993 has a porous surface and is susceptible to potential staining and contamination if left uncoated. It is recommended to seal the dry surface with a suitable sealer.

Furthermore foot-wiping areas and protective polycarbonate mats are recommended in areas exposed to chair castors.

IMPORTANT NOTES:

- ▶ A shelf life of 6 months when stored in dry conditions, in the original packaging. The setting and drying times may become longer if the storage time is prolonged. The properties of the cured material are not affected. Carefully and tightly reseal opened packaging and use the contents as quickly as possible.
- ▶ Best applied between 15 - 25 °C and relative humidity below 65%. Low temperatures, high humidity, little air circulation, dense substrates and large thickness will delay the setting and drying time. Whilst high temperatures and low humidity, strong air circulation and absorbent substrates will accelerate setting, drying and readiness for covering. In summer, store in cool conditions and use cold water.
- ▶ The use of a spray extraction cleaner is recommended to avoid pooling with wet cleaning.

- ▶ Expansion, movement and perimeter joints in the substrate must be reflected through to the surface. Fit UZIN Foam Expansion Strips to any adjacent, vertical structures to prevent the ingress of the compound into the joints.
- ▶ Can be pumped with continuous, forced-action mixer-pumps, e.g. from manufacturers such as m-tec, P.F.T. and others.
- ▶ Protect freshly applied areas from draughts, direct sunlight and sources of heat. Cement-based compounds tend to form cracks on soft substrates. Remove any soft and tacky layers as much as possible before applying the compound. In such instances, leaving the compound open for too long also promotes such cracking and should therefore be avoided.
- ▶ Using different amounts of mixing water can cause differences in the surface appearance. This effect can be reduced by measuring the mixing water.
- ▶ Compounds must not enter between insulation and heating pipes because of the risk of corrosion. This applies in particular for heating pipes made from galvanized steel. Insulation may only be cut off after smoothing.
- ▶ Follow the generally acknowledged rules of the trade and technology for the installation of wood flooring and floor covering in respective of the applicable national standards (e.g. EN, DIN, OE, SIA, etc.)

SEALS OF QUALITY & ECOLABELS:

- ▶ Low chromate content acc. Regulation (EC) No. 1907/2006 (REACH)
- ▶ EMICODE EC 1 PLUS / Very low-emission

COMPOSITION:

Special cements, mineral aggregates, redispersible polymers, high-performance liquefiers and additives.

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. Use protective gloves. When mixing wear a protective dust-mask. Presents no physiological or ecological risk when fully cured. 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 to get into drains, sewers or ground. Empty paper packaging is recyclable. Collect waste product, mix with water, allow to harden, then dispose as Construction Waste.