

Industrial Top

# UZIN NC 770

Cement based, self-smoothing topcoat for thicknesses from 3 to 50 mm

**MAIN APPLICATION FIELD:**

Cement based, self-smoothing topcoat for producing a wear-resistant floor finish where surface appearance is a secondary consideration. It can also be used as an industrial smoothing compound for resin coatings and most floor coverings. Pumpable, for interior application.

**PRODUCT BENEFITS/FEATURES:**

- ▶ Cementitious screeds, screeds or concrete
- ▶ Calcium sulphate screeds, with a suitable primer. Please consult Uzin technical
- ▶ Old waterproof substrates with waterproof adhesive residues or smoothing compound residues
- ▶ Precast screeds, screed boards
- ▶ Existing ceramic and natural stone coverings, Terrazzo or similar
- ▶ New mastic asphalt IC 10 and IC 15

**SUITABLE ON / FOR:**

- ▶ use as a wear resistant finish or to receive resin coatings and most floor coverings
- ▶ heavy duty for commercial and industrial areas
- ▶ hot water underfloor heating systems, especially for low-thickness systems
- ▶ loads from chair castors according to DIN EN 12 529 3 AR0.50 abrasion resistance less than 1 mm impact test



<b>UK CA</b>	
NB: 0761	
Uzin Utz UK Ltd, Warwickshire, CV23 0UY	
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EN 13813:2002	
Cementitious levelling compound for substrates in interior locations	
EN 13813: CT-C35-F7-AR0,5	
Reaction to fire	<b>A1fl</b>
Release of corrosive substances	<b>CT</b>
Compressive strength	<b>C35</b>
Flexural strength	<b>F7</b>
Wear resistance	<b>AR0,5</b>

**PRODUCT BENEFITS/FEATURES:**

UZIN NC 770 Industrial Top can be used as a floor finish, providing excellent wear resistance. It is ideal for use in industrial locations where there is heavy machinery or fork lifts operating. It can also be used as an industrial smoothing underlayment ready to receive resin coatings and most floor coverings.

- ▶ Excellent abrasion resistance
- ▶ Good flow characteristics and pumpable
- ▶ Low stress
- ▶ High compressive strength and tensile strength

**TECHNICAL DATA:**

Packaging	paper bag
Pack size	25 kg
Shelf life	min. 9 months
Water quantity	4.25 – 4.5 l / 25 kg bag
Colour	grey
Consumption	approx. 1.7 kg/mm/m <sup>2</sup>
Pot life	20 - 40 minutes*
Ready for foot traffic	after 2 - 4 hours*
Ready for covering	approx. 24 hours at 3mm*
Minimum application temperature	10 °C at ground level
Loadable	after 3 days*
Flow ring spread	approx. 140 mm ± 5 mm
Abrasion resistance	AR 0.5 according DIN EN 13 813
Fire reaction	A1fl according to DIN EN 15 501-1

\*At 20 °C and 65% relative humidity and max. thickness of 3 mm.



## SUBSTRATE PREPARATION:

The substrate must be sound, load-bearing, dry, free of cracks, clean and free of materials that could impair adhesion (dirt, oil, grease). Cement screeds must be abraded and vacuumed. Test the substrate in accordance with applicable standards or notices and report any deficiencies.

Any adhesion-reducing or unstable layers, e. g. laitance, release agents, loose adhesives, compounds, covering or paint residues etc. must be mechanically removed by grinding or shot blasting. Thoroughly vacuum loose material and dust. Use a suitable primer from the UZIN range according to the type and condition of the substrate. Allow any primers that are applied to dry completely.

Refer to the product data sheets for other products used.

## APPLICATION:

1. Pour 4.25 – 4.5 litres of cold, clean water into a clean container. Add the sack contents (25 kg) whilst mixing vigorously until a smooth and lump-free compound is obtained. Use a heavy-duty drill with the UZIN smoothing compound mixer attachment (minimum 650 rpm).
2. Pour or pump the compound onto the primed substrate and distribute evenly using a smoothing trowel or UZIN Screed Rake. In thicker coats or when using the screed rake, the surface finish can be improved by use of the UZIN Spike Roller. Where possible, apply to the desired thickness in one coat, at least 3 mm.

## SURFACE TREATMENT:

UZIN NC 770 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. Due to variations in naturally occurring materials, tones and shading can vary significantly. During drying, cracks may appear in the compound. No guarantee can be made of the ultimate aesthetic appearance of the finished floor.

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

## CONSUMPTION:

Thickness	Approx. Coverage per bag.
3 mm	5.0 m <sup>2</sup>
10 mm	1.5 m <sup>2</sup>

## APPLICATION CHART:

Thickness	coatable
up to 50 mm	after 36 to 72 hours*

\*At 20 °C and 65% relative humidity.

## IMPORTANT NOTES:

- ▶ Shelf life at least 9 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 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.
- ▶ All cementitious compounds can be susceptible to micro cracking during the curing process. To keep micro cracks to a minimum, the compound can be coated with a suitable product, earliest after 36, latest up to 72 hours after installation.
- ▶ Please note that UZIN NC 770 has a porous surface and is susceptible to potential staining and contamination if left uncoated.
- ▶ Expansion, movement and perimeter joints in the substrate must be reflected through to the surface. Fit UZIN Foam Expansion Strips to any adjoining rising 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.
- ▶ Stress induced joints are recommended on large areas for thicknesses over 5 mm. This will help reduce any shrinkage cracking to the cementitious compound.
- ▶ Can be pumped with continuously mixing spiral pumps, e. g. from manufacturers such as m-tec, P.F.T. and others. Use subsequent agitator.
- ▶ When smoothing in several layers allow compound to dry completely, apply UZIN PE 260 as intermediate primer and smooth subsequently after drying. The thickness of the second smoothed layer must not exceed the thickness of the first one.
- ▶ 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.
- ▶ For thicknesses above 10 mm, on moisture-sensitive (calcium sulphate screeds) or weak substrates (e. g. adhesive residues), use epoxy-resin primers, such as UZIN PE 460 or PE480, gritted.
- ▶ Only for new mastic asphalt screeds thicknesses up to max. 5 mm. Older mastic asphalt screeds with old layers are not permissible. For greater thicknesses or old mastic asphalt screeds, gypsum-based smoothing compounds such as UZIN NC 110 or UZIN NC 111 BiColor should be used.
- ▶ With new firmly screwed chipboard P4 – P7 or OSB 2 – 4 panels, thicknesses up to max. 10 mm are permitted. Priming with anhydrous primers must be applied here, e. g. with UZIN PE 404 (2 coats), UZIN PE 460 grit binded with sand.
- ▶ Avoid contact to metallic materials, e. g. pipes, water lines, etc. especially from galvanised steel since they do not exhibit permanent corrosion protection.
- ▶ Do not use externally.

- ▶ Protect freshly smoothed areas from draughts, direct sunlight and sources of heat. Cementitious compound layers on soft or tacky substrates tend to form cracks. These soft or tacky layers must therefore be removed as much as possible before applying smoothing compounds. Leaving such layers for a prolonged period also promotes such cracking and should therefore be avoided.
- ▶ Follow the generally acknowledged rules of the trade and the technology for the installation of 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”, Ö-NORM B 2236
  - 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”
  - TKB publication “Technical description and processing of floor levelling compounds”

## 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.