

Rapid Smoothing Compound

UZIN NC 172 BiTurbo

Extremely rapid-drying, cement-based smoothing compound with Level Plus Effect for almost all areas of application and substrates

MAIN APPLICATION FIELD:

The rapid drying smoothing compound will accept foot traffic after approx. 60 minutes. For most coverings, it is sufficiently dry for installation as soon it is set to walk on. Pumpable.

For interior use only.

SUITABLE ON / FOR:

- ▶ new substrates, e.g. cement screeds, calcium sulphate screeds or concrete
- ▶ new, fixed-screwed chipboard P4 – P7 or OSB 2 – OSB 4 boards
- ▶ existing ceramic and natural stone coverings, terrazzo and similar.
- ▶ pre-cast component covers, e.g. gypsum fibre board
- ▶ the subsequent laying of wood flooring, cork and PO floor coverings after a drying time of 12 hours
- ▶ high-stress loads in the residential, commercial and industrial sectors, e.g. industrial halls, forklift-loaded surfaces etc.
- ▶ warm water underfloor heating
- ▶ loading with chair castors according to DIN EN 12 529



UK CA	
NB: 0761	
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EN 13813:2002	
Cementitious levelling compound for substrates in interior locations	
EN 13813: CT-C50-F10	
Reaction to fire	A2fl-s1
Release of corrosive substances	CT
Compressive strength	C50
Flexural strength	F10

PRODUCT BENEFITS/FEATURES:

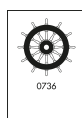
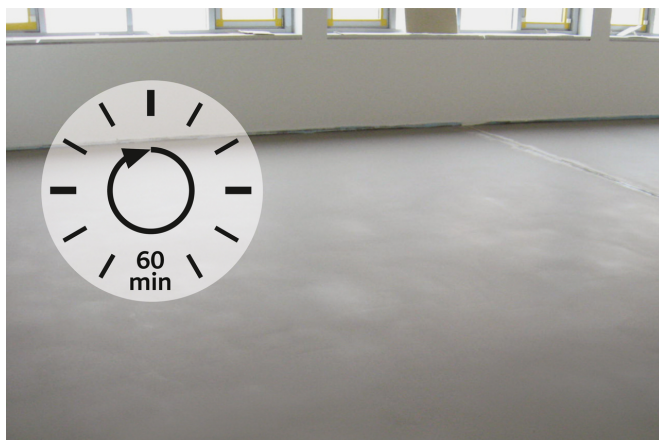
UZIN NC 172 BiTurbo is fast drying, high-performance smoothing compound with excellent flow properties. It dries quickly even with unfavourable climatic conditions and many types of floor covering can be installed after 1 hour*. For interior use.

- ▶ Covering-ready after 60 minutes
- ▶ Hydraulic setting
- ▶ up to 10% less adhesive consumption

TECHNICAL DATA:

Packaging	paper bag
Pack size	20 kg
Shelf life	min. 6
Water quantity	approx. 4.8 – 5.2 litres per 20 kg bag
Colour	dark-grey
Consumption	approx. 5 m ² at 3 mm per bag
Ideal application temperature	20 °C
Pot life	max. 15 minutes*
Ready for foot traffic	after 60 minutes*
Ready for covering	see "Ready for covering"
Minimum application temperature	10 °C at ground level
Fire reaction	A2fl-s1 acc. to DIN EN 13 501-1

*At 20 °C and 65% relative humidity and 8 °C substrate temperature. See "Ready for covering".



EXTENDED APPLICATIONS:

- ▶ smoothing and levelling for the subsequent installation of wood flooring, cork and PO floor coverings. (see "readiness for covering").

SUBSTRATE PREPARATION:

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

Remove any adhesion-reducing or unstable layers, e.g. stripping compound, loose adhesive, levelling compound, covering, or paint coat residues and similar, e.g. through brushing off, abrading, milling off or shot-blasting. Thoroughly vacuum loose material and dust. According to type and characteristic quality of the substrate, select a suitable primer from the UZIN product range. In case of certain substrates, such as e.g. old screeds with sealed, waterproof, well-adhering adhesive residues, prior priming can be dispensed with. In case of layer thicknesses above 3 mm, priming is generally to be carried out. Allow primer to dry out completely.

Refer to the Product Data Sheets for other products used.

APPLICATION:

1. Put 4.8 – 5.2 litres cold, clear water into a container. Sprinkle in the sack contents (20 kg) while stirring vigorously and blend to a semi-viscous, lump-free mixture. Use a drill or mixer fitted with a UZIN Mixing Paddle.
2. Pour out the mixture onto the substrate and distribute evenly with a smoothing trowel or the UZIN surface rake. The flow and surface can be improved by removing air using the UZIN Spike Roller. Where possible, apply to the desired thickness in one coat.
3. Repair smoothing compounds such as UZIN NC 888 can be used to mend any surface irregularities. The compound can be ground after 2 ½ – 4 hours after repairing

EXTENSION:

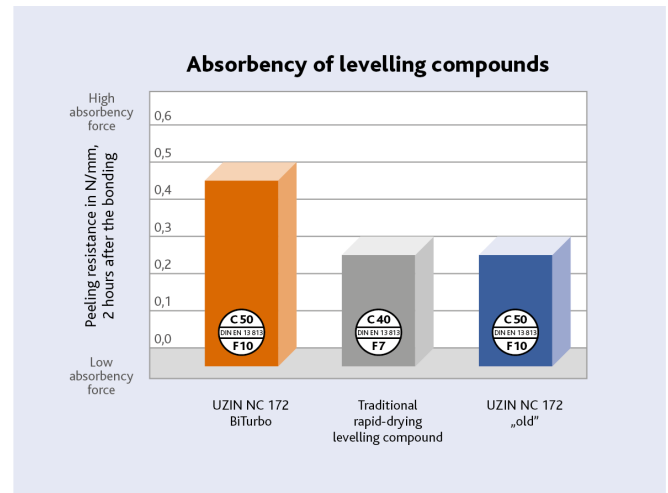
Layer Thickness	Ideal additive amount
10 - 15 mm	30% Fine Sand 0.8 (6 kg sand / 20 kg powder)
15 - 30 mm	50% Coarse Sand 2.5 (10 kg sand / 20 kg powder)

READY FOR COVERING:

Planned Top Layer	Layer Thickness	Ready for Covering
Textile Coverings	3 - 30 mm	from 60 minutes*
Elastic coverings, e.g. PVC, linoleum, caoutchouc, ceramics		from 60 minutes*
Textile and elastic coverings with Sigan 1 + Planus Primer		apply Planus 4 h after smoothing at the earliest
Wood flooring, cork, polyolefin coverings		12 hours*

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

The readiness for further covering is independent of layer thickness, however it depends considerably on the climatic conditions on site.



The absorption capacity of UZIN NC 172 Biturbo is approx. twice as high as usual rapid-drying levelling compounds. The open time of the adhesive during the laying is considerably reduced in comparison with usual compounds. The overall appearance of the finished floor covering surface is very smooth and flat.

CONSUMPTION:

Thickness	Approx. coverage per bag
1 mm	15 m ²
3 mm	5 m ²
5 mm	1.5 m ²

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 20 - 22 °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.
- ▶ 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.
- ▶ The substructure of wooden floors must be dry to prevent damage due to damp 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.
- ▶ Minimum thickness for resistance of castors is 1 mm. On non-absorbent substrates such as old screeds with closed, fixed, waterproof adhesive residues, a thickness of 2 - 3 mm must be used.
- ▶ When applying in several coats, allow the compound to dry completely. Then apply UZIN PE 360 PLUS as a intermediate primer and leave to dry, before applying subsequent coats.
- ▶ The minimum thickness below pre-finished wood flooring is 2 mm. Pay particular attention to a sufficient drying of the levelling compound prior to installation of wood flooring.
- ▶ On moisture-sensitive substrates, use epoxy primers, such as UZIN PE 460, gritted.
- ▶ On weak, older substrates with several layers of adhesive or levelling compound, the use of gypsum-based levelling compounds such as UZIN NC 110, UZIN NC 112 BiTurbo or UZIN NC 115 is preferred.
- ▶ For mastic asphalt screeds, gypsum-based levelling compounds such as UZIN NC 110, UZIN NC 112 Turbo or UZIN NC 115 should be used.
- ▶ The maximum thickness on OSB and chipboards is 3 mm.
- ▶ Do not use in exterior or wet areas.
- ▶ Protect freshly applied areas from draughts, direct sunlight and sources of heat. Cement-based compounds tend to form cracks on soft or tacky substrates. These soft and tacky layers must therefore be removed as much as possible before applying the compound. Leaving such compounds open for too long also promotes such cracking and should therefore be avoided.
- ▶ Do not use as a screed or as a wear surface, a surface covering must always be applied.

- ▶ 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.
- ▶ UZIN NC 172 BiTurbo has the approval as shipbuilding equipment product by the maritime occupational association "See-Berufsgenossenschaft Hamburg", module B and module D. Certificates are available upon request. The permissible thickness is 13 mm. USCG-No. for the system is 164.106/EC0736/113.127.
- ▶ 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.