

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 22.04.2015



Version No. 6

Revision: 22.04.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
 - Trade name: UZIN NC 170 LevelStar
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
 - Sector of Use
 - SU19 Building and construction work
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 - SU21 Consumer uses: Private households / general public / consumers
 - Product category PC9b Fillers, putties, plasters, modelling clay
 - Application of the substance / the mixture Levelling Compound
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 - Uzin Ltd.
 - Unit 2, Mitchell Court
 - Central Park, Rugby
 - Warwickshire, CV23 0UY,
 - Telephone +44 (0) 1788 530 080
 - Fax +44 (0) 1788 536508
 - Email info@uzin.co.uk
- **Further information obtainable from:**
 - Product safety department
 - email: msds.info@uzin-utz.com
- **1.4 Emergency telephone number:**
 - Medical emergencies: +49 30 30 686 790
 - Transportation emergencies: +49 621 60 43 333

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- Classification according to Regulation (EC) No 1272/2008
 -  GHS05 corrosion
 - Eye Dam. 1 H318 Causes serious eye damage.
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC
 -  Xi; Irritant
 - R36: Irritating to eyes.
- **Information concerning particular hazards for human and environment:**
 - The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **2.2 Label elements**
 - Labelling according to Regulation (EC) No 1272/2008
 - The product is classified and labelled according to the CLP regulation.
 - Hazard pictograms GHS05
 - Signal word Danger
 - Hazard-determining components of labelling:
 - Portland cement
 - Hazard statements
 - H318 Causes serious eye damage.
 - Precautionary statements
 - P102 Keep out of reach of children.
 - P261 Avoid breathing dust.

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- P280 Wear protective gloves / eye protection.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists: Get medical advice/attention.

- **Additional information:** Low in Chromate (< 2 ppm) acc. Regulation (EC) No 1907/2006 (REACH).
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 65997-15-1	Portland cement	5 - <10%
EINECS: 266-043-4	Xi R37/38-41 Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂ powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear dust mask.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
 - Prevent formation of dust.
 - Wear suitable protective clothing, gloves and eye/face protection.
 - Keep away from foodstuffs, beverages and feed.
 - Avoid contact with the eyes and skin.
 - Wash hands before breaks and at the end of work.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:** No special requirements.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:**
 - Store in dry conditions.
 - Protect from humidity and water.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

65997-15-1 Portland cement

WEL	Long-term value: 10* 4** mg/m ³ *inhalable dust **respirable dust
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- **8.2 Exposure controls**
 - **Personal protective equipment:**
 - **General protective and hygienic measures:**
 - Prevent formation of dust.
 - Wear suitable protective clothing, gloves and eye/face protection.
 - Keep away from foodstuffs, beverages and feed.
 - Avoid contact with the eyes and skin.
 - Wash hands before breaks and at the end of work.
 - **Respiratory protection:**
 - Not required.
 - When mixing wear suitable dust-mask.
 - **Protection of hands:**



Use nitrile impregnated cotton-gloves

- **Material of gloves** Nitrile impregnated cotton-gloves
- **Penetration time of glove material**
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Solid
Colour:	Grey
Odour:	Light
Odour threshold:	Not determined.

· pH-value at 20 °C: 11

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not determined.

· Ignition temperature:

Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapour pressure: Not applicable.

· Density: Not determined.

· Relative density: Not determined.

· Vapour density: Not applicable.

· Evaporation rate: Not applicable.

· Solubility in / Miscibility with water:

Insoluble.
Sets with water.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic:	Not applicable.
Kinematic:	Not applicable.

· 9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity

· 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions: No dangerous reactions known.

· 10.4 Conditions to avoid: No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Slightly irritant effect may occur.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitisation:**
- No sensitising effects known.
- Low in Chromate (< 2 ppm) acc. Regulation (EC) No 1907/2006 (REACH).
- **Additional toxicological information:**
- The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
- Corrosive

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
- Do not allow product to reach sewage system.
- Mix product residues with water, allow to harden, then dispose of as construction waste.
- **Uncleaned packaging:**
- **Recommendation:** Empty paper packaging is recyclable.

SECTION 14: Transport information

- | | |
|--|------|
| · 14.1 UN-Number | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | Void |

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- | | |
|--|--|
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | Not dangerous according to the above specifications. |
| · UN "Model Regulation": | - |

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No further relevant information available.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.
- **Department issuing MSDS:** Product safety department
- **Contact:**
Dr. M. Zieger, phone +49 (0)731 4097 207
E-Mail: msds.info@uzin-utz.com
- **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
- *** Data compared to the previous version altered.**

GB

PRODUCT DATA SHEET

Level Plus
Effect

UZIN®

Premium levelling compound

UZIN NC 170 LevelStar

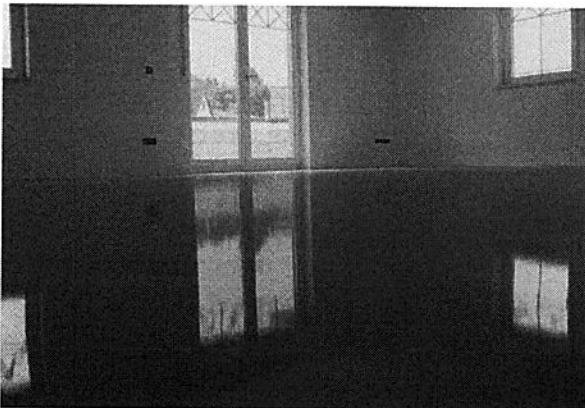
Self-levelling, extremely smooth cementitious levelling compound,
with Level Plus Effect for any thickness range

Applications:

High-performance levelling and smoothing compound suitable for use on all common substrates within building construction. For the subsequent installation of all floor coverings, wood flooring as well as ceramics and natural stone. Pumpable, for interior application.

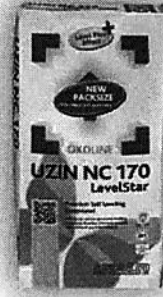
Suitable for:

- ▶ Subsequent installation of textile and resilient floor covering of all types such as textile flooring, PVC/CV flooring, luxury floor covering, rubber flooring, linoleum, cork, Enomer (chlorine-free) flooring (e.g. Upofloor Life-line®), PUR flooring (e.g. WPT PURline®)
- ▶ Subsequent installation of wood flooring
- ▶ Subsequent installation of ceramics and natural stone floor coverings
- ▶ Heavy-duty in residential, commercial and industrial areas, e.g. in hospitals, high-traffic shopping malls, industrial shops, etc.
- ▶ Hot water underfloor heating
- ▶ Loads from chair castors according to DIN EN 12 529 from 1 mm compound thickness



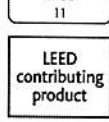
Provides the highest possible level of emission safety and contributes towards creating a healthy room climate.

Marked with the "Blue Angel" for low-emission floor covering adhesives and other installation materials according to RAL-UZ 113.



CE	
0761	
Uzin Utz AG Dieselstraße 3 D-89079 Ulm 13	
01/02/0016.01	
EN 13 813:2002 Cementitious levelling compound for substrates in interior locations EN 13 813: CT-C35-F7	
Reaction to fire	A1fl
Release of combustive substances	CT
Compression strength	C 35
Flexural strength	F 7

UZIN ÖKOLINE



Composition: Special cements, mineral aggregates, polyvinyl acetate copolymers and high-performance liquefiers and additives.

- ▶ Superior flow characteristics
- ▶ Very smooth surface
- ▶ Up to 10 % less adhesive consumption
- ▶ Highly absorbent
- ▶ Low chromate content
- ▶ EMICODE EC 1 R PLUS / Very low-emission
- ▶ RAL-UZ 113 / very low-emission and hence eco-friendly

Technical specifications:

Packaging:	paper bag
Pack size:	25 kg
Shelf life:	min. 6 months
Required water quantity:	approx. 6.5 litres per 25 kg bag
Colour:	grey
Consumption:	Approx. 1.5 kg/m ² powder per mm layer thickness
Minimum working temperatures:	10 °C at ground level
Ideal working temperature:	15 – 25 °C at ground level
Working time:	20 – 30 minutes*
Set to foot traffic:	After 1 – 2 hours*
Ready for covering:	after approx. 15 hours*
Fire classification:	A1fl acc. to DIN EN 13 501-1

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

UZIN | A Brand of Uzin Utz AG

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| Internet www.uzin.co.uk

Extended applications:

Suitable for use on:

- ▶ Cementitious screeds, calcium sulphate screeds or concrete
- ▶ Substrates with well-bonded residues of adhesives and smoothing compounds
- ▶ New, firmly bolted chipboard P4 – P7 or OSB 2 – OSB 4 panels
- ▶ Existing ceramic and natural stone coverings, Terrazzo or similar
- ▶ New (and dependent on age) old mastic asphalt IC 10 and IC 15 as well as scraping levelling on fine asphalt concrete
- ▶ Magnesia and xylolite screeds
- ▶ Precast screed, gypsum fibre boards

Product benefits / features:

UZIN NC 170 LevelStar is a high-quality, premium levelling compound with innovative raw material technology. As a result of the special composition, the Level Plus Effect produces extremely good flow properties resulting in a very smooth and uniform appearance. It also produces an exceptionally smooth surface which can subsequently reduce the amount of adhesive consumption. Abrasives and tooth profiles also wear less and can be used for longer.

UZIN NC 170 LevelStar can be used in heavy-duty areas in new constructions or old buildings. It is quickly ready to withstand high wear and can be used for any thickness from 10 mm when filled out with quartz sand.

UZIN NC 170 LevelStar can be used on difficult substrates where the installer wants to deliver perfect results.

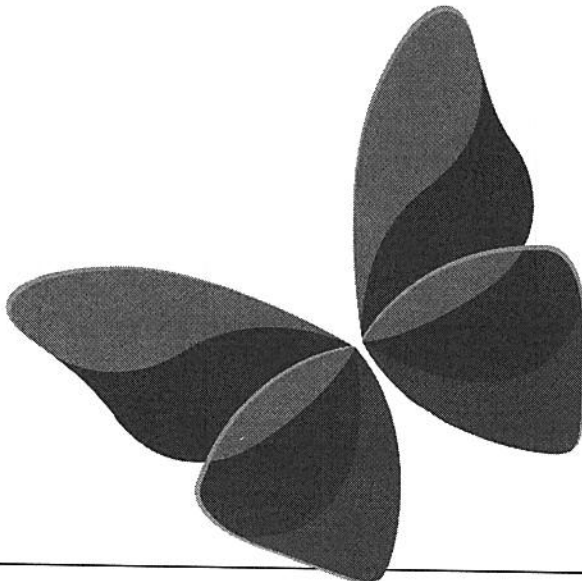
Application sample:



In this historic monastery UZIN NC 170 LevelStar was used on extremely difficult substrates at different thicknesses. The result is a perfect surface, without cracks.



On other floors, wear resistant floor coverings were laid on UZIN NC 170 LevelStar.



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. Cement and calcium sulphate 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. 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 primers that are applied to dry completely.

The product data sheets of the other products used must be observed.

Application:

1. Pour approx. 6.5 litres of cold, clean water into a clean container. Sprinkle in contents of sack (25 kg) while thoroughly stirring at the same time and mix to form a thick lump-free consistency. Use a drill or mixer fitted with a UZIN Mixing Paddle.
2. Pour out the mix onto the substrate and distribute evenly with a smoothing trowel or the UZIN Screed Rake, notch size R 2. 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.

Consumption information:

Thickness	Approx. Consumption	Approx. coverage per 25 kg sack
1 mm	1.5 kg / m ²	16.6 m ²
3 mm	4.5 kg / m ²	5.5 m ²
10 mm	15.0 kg / m ²	1.6 m ²

Extending UZIN NC 170 LevelStar:

Thickness	Ideal additive amount
10 – 20 mm	30 % quartz sand 0.8 (8 kg sand / 25 kg powder)
20 – 50 mm	50 % quartz sand 2.5 (12.5 kg sand / 25 kg powder)

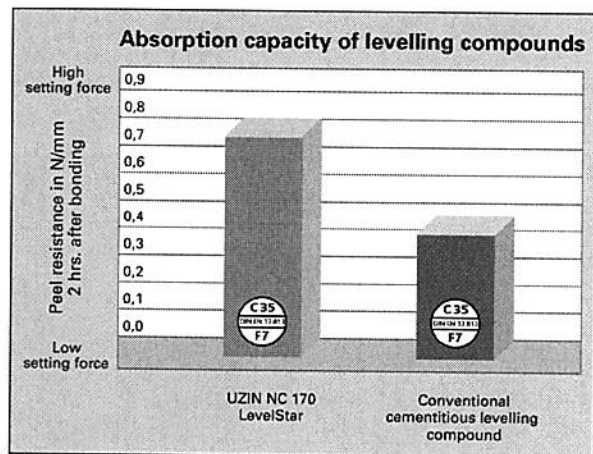
The water factor must be adapted according to sand, thickness and moisture content.

Readiness for covering:

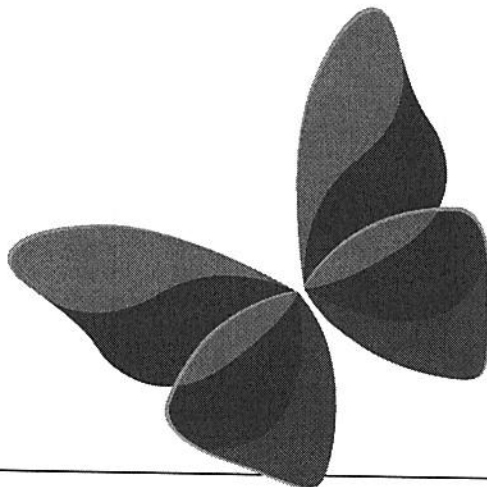
Thickness	Readiness for covering
3 mm	15 hours*
5 mm	24 hours*
10 mm	48 hours*
20 mm	72 hours*

*At 20 °C and 65 % relative humidity.

Practical Notes:



The absorbency of the new premium levelling compound is approximately twice as high as conventional levelling compounds. The open time of the adhesive during the laying is considerably reduced in comparison. The installer of the covering can therefore work faster and the overall appearance of the finished floor covering surface is very smooth and flat.



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.
- ▶ Expansion, movement and wall connection joints resulting from the substrate must be taken up. 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.
- ▶ Pumpable with continuously mixing screw pumps, e. g. from m-tec, P.F.T., and others.
- ▶ 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.
- ▶ Minimum thickness for resistance to castors is 1 mm. On non-absorbent surfaces, such as old screeds with a full cover of old, waterproof adhesive residues, apply 2 – 3 mm
- ▶ When applying in several coats, allow compound to dry completely, prime with UZIN PE 360 and when this is dry apply the next coat. The second coat must not exceed the thickness of the first one.
- ▶ The minimum thickness beneath wood flooring is 2 mm.
- ▶ For thicknesses above 10 mm or on moisture-sensitive (calcium sulphate screeds) or weak substrates (adhesive residues), use epoxy-resin 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 or UZIN NC 115 is preferred.
- ▶ For new asphalt screeds thicknesses up to max. 5 mm and for older asphalt screeds with old layers attached thicknesses up to max. 3 mm are permissible. For greater thicknesses gypsum-based levelling compounds such as UZIN NC 110 or UZIN NC 115 should be used.
- ▶ With new firmly bolted chipboards P4 – P7 or OSB 2 – OSB 4 panels thicknesses up to max. 3 mm are permitted.
- ▶ Do not use in exterior or wet areas.
- ▶ 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 compound layers open too long also promotes such cracking and should therefore be avoided.

- ▶ Do not use as wearing floor covering or wearing surface; always apply a top covering.
- ▶ UZIN NC 170 LevelStar has the approval as shipbuilding equipment product by the maritime authority association "See 'Berufsgenossenschaft Hamburg", module B and module D. Certificates are available upon request. The permissible thickness is 20 mm. USCG-No. for the system is 164.106/EC0736/113.113.
- ▶ Do not use as a screed or as a wearing surface – a surface covering or coating must always be applied.
- ▶ 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-Norm, SIA, etc.).
 - DIN 18 365 "Working with floor coverings", Ö-Norm B 2236
 - DIN 18 356 "Working with wood flooring", Ö-Norm B 2218
 - DIN 18 352 "Tile and slab work"
 - 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 cementitious floor levelling compounds"

Protection of the workplace and the environment:

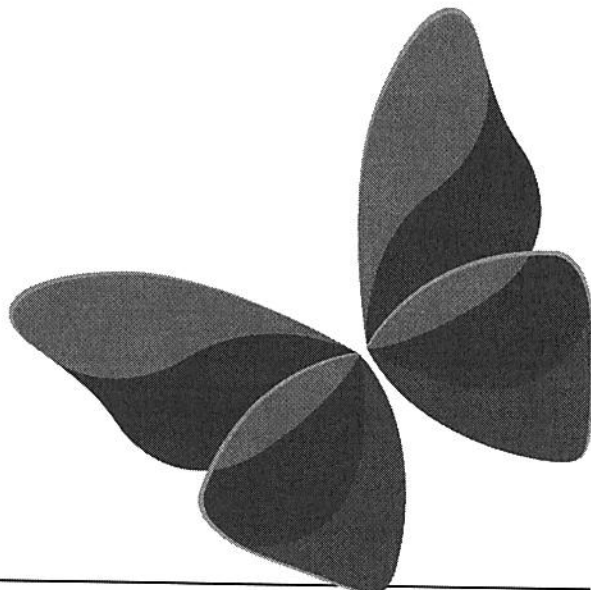
Contains cement, low in chromate acc. Regulation (EC) No 1907/2006 (REACH). Keep out of the reach of children! Use nitrile impregnated cotton-gloves. During mixing wear a suitable dustmask. Thorough ventilation must be ensured during and after the installation and drying time of the product. Drinking, eating and smoking are prohibited during the installation. After contact with eyes or skin, wash immediately with plenty of water. Rinse tools with water and soap immediately after use. Produces no physiological or ecological risk when fully cured.

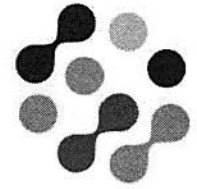
Basic prerequisites for best possible indoor air quality following floor covering work are conformity to standards of the working conditions, as well as thoroughly dry substrate, primer and smoothing compound.

For allergy information, call +49 (0)731 4097-0 (Germany).

Disposal:

Do not allow dispersal into drains, sewers or ground. Empty paper bags are recyclable. Collect waste material, mix with water and allow to harden, then dispose as Construction Waste.





Confirmation

eurofins

Eurofins Product Testing A/S confirms that a sample of a levelling compound with the name

NC 170 LevelStar

supplied by

Uzin Utz AG

showed low VOC emissions in a test in accordance with *California Department of Health Services Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda (California Specification Section 01350)*, as specified in LEED for schools credit 4.1 (adhesives and sealants).

Emissions were below all limit values specified in that standard practice.

The test has been performed on 16 October 2009, see test report no. 770907. The testing methodology is covered by independent ISO 17025 accreditation, issued by DANAK (# 168).

With this confirmation, use of product NC 170 LevelStar may qualify for fulfillment of LEED for schools credit IEQ 4 (adhesives and sealants).

28 October 2009

Thomas Neuhaus
Head of product emission test centre

Eurofins Product Testing A/S
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