

Premium Pro-Floor Leveling Compound

UZIN NC 172 TURBO

Extreme performance self-leveling compound

DESCRIPTION:

Special portland-based self-leveling compound with high-performance plasticizer technology produces flat, rapid drying, absorbent substrates for all floor coverings and adhesives with an extremely strong, smooth finish without application depth limitation.

SUITABLE FOR:

- ▶ Interior use only
- ▶ Time-sensitive, fast track construction projects
- ▶ Producing flat and smooth surfaces for the installation of textile, resilient, ceramic, and wood floor coverings
- ▶ Use as a self-leveling layer over existing hard surface flooring such as well bonded terrazzo, ceramic tile, stone and well bonded epoxy coatings
- ▶ Use over structurally sound concrete, APA Exposure Type 1 plywood and OSB, or equally rated subfloor materials
- ▶ Use over well bonded adhesive residues including cutback adhesive*
- ▶ Residential and commercial applications
- ▶ Use with radiant floor heating systems

*See "Substrate Preparation" for additional information



FEATURES AND BENEFITS:

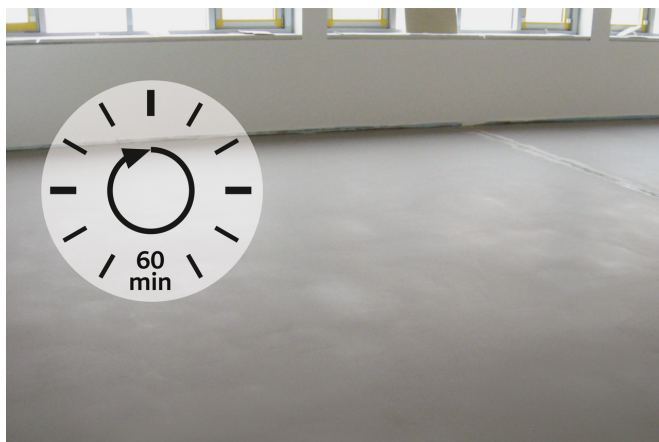
- ▶ Very fast drying • Ready for floor covering installation in as little as 1 hour
- ▶ Versatile • Applies from 1/16" (1.5 mm) to unlimited depth
- ▶ Fast strength development • 1 day 4,500 psi compressive
- ▶ Excellent mixing properties • Pumpable
- ▶ Very smooth surface • Improves adhesive coverage rate

TECHNICAL DATA:

| | |
|---------------------------------|---|
| Packaging | 50 lb (22.7 kg) paper bag |
| Storage | up to 6 months** |
| Water quantity | 5.5–6.0 quarts per 50 lb bag (5.2–5.7 liters per 22.7 kg bag) |
| Color | gray |
| Coverage | 60 sq. ft. at 1/8" per 50 lb bag* (5.57 m ² at 3 mm per 22.7 kg bag)* |
| VOC | 0 g/L |
| Working time | 15 min |
| Ready for foot traffic | 60 minutes* |
| Ready for covering | see ready for covering chart |
| Minimum application temperature | 50 °F (10 °C) at floor level |
| Flow ring spread | ~6.1 in (156 mm) ASTM C1708 |
| Strength | compressive: 8,000 psi at 28 days flexural: 1,800 psi at 28 days ASTM C1708 air cure only |

*At 70 °F (21 °C) and 50% relative air humidity and a substrate temperature of 65 °F. Surface profile and porosity, application depth, temperature, and humidity will affect dry time and coverage.

** In original unopened packaging, when stored indoors in dry, moderate conditions between temperatures of 50F - 90F (10C - 32C).



EXTENDED APPLICATIONS:

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

PRODUCT PROPERTIES:

UZIN NC 172 TURBO is a highly polymer-modified, fast-setting self-leveling compound that will accept floor covering in approximately 60 minutes. It is sufficiently dry for installation of most floor coverings as soon it is set to walk on, allowing for complete renovations in a single day.

SUBSTRATE PREPARATION:

The subfloor must be structurally sound, solid, dry, free from active cracks, clean, and free of all contaminants, including but not limited to dust, grease, oil, paint, wax, curing, and sealing compounds, or cleaning solution residue that would impair adhesion. If necessary, mechanically prepare and clean the surface by grinding, shot blasting, or sanding, and thoroughly vacuum off all loose material and dust following OSHA recommended guidelines. Do not use sweeping compounds. Any weakly bonded or soft surface material, such as loose patching compounds, leveling compounds, floor coverings, or coatings, must be removed. Do not apply this product over any acid-etched or chemically abated adhesive surfaces. Wood substrates must provide a rigid base and be securely fastened without excessive vertical movement. The surface of the wood must be clean and free of oils, grease, wax, dirt, varnish, shellac, and any contaminants that would impair adhesion. If necessary, sand down to bare wood. Do not apply UZIN products directly to fire-retardant or pressure-treated wood surfaces. Please refer to the UZIN Substrate Preparation Guide for additional information.

CAUTION: Inhalation of asbestos dust may cause asbestosis or other serious bodily harm. Do not sand, grind, or disturb any surface or adhesive residue that may contain asbestos or lead, as harmful dust may result. Refer to the Resilient Floor Covering Institute's publication "Recommended Work Practices for Removal of Resilient Floor Coverings" for instructions.

Substrate Moisture Testing and Assessment

Evaluate concrete substrates following ASTM F710 guidelines. Select a suitable UZIN moisture vapor retarder if required. UZIN NC 172 TURBO and UZIN acrylic primers are not vapor retarders and allow water vapor diffusion. Always reference the limitations of the UZIN products, floor covering, and adhesive manufacturers' guidelines. If these limitations are in conflict, the most stringent requirements shall apply.

UZIN Moisture Mitigation System-Concrete Substrates

| UZIN Moisture Vapor Retarder (MVR) | | | | |
|---|----------|---------|------------|-------------|
| Surface | UZIN MVR | Max RH* | pH Control | UZIN Primer |
| Concrete all grade levels, no ASTM E1745 vapor retarder requirement | PE 460 | 100% | 5-14 | PE 280 |
| Concrete all grade levels | PE 414 | 95% | 5-14 | PE 280 |

PRIMING:

UZIN NC 172 TURBO requires the floor surface to be primed before application. According to floor surface type and absorbency, select a UZIN primer. For detailed UZIN primer information, please refer to the UZIN primer datasheet located at us.uzin.com. or contact UZIN for technical guidance.

| UZIN Primer Quick Reference Chart | | | |
|---|--------------------|---------------------------------|--------|
| Surface | Absorbency | UZIN Primer | Max RH |
| Concrete-all grade levels, portland-based leveling compounds, cement terazzo* | porous | PE 360 PLUS | 85% |
| | porous | PE 260 | 85% |
| | non-porous (dense) | PE 260, PE 280 | 85% |
| UZIN PE 460 or PE 414 TURBO as non MVR coating | non-porous | PE 280 | 85% |
| Prepared adhesive layers | non-porous | PE 260, PE 280, PE 414 w/PE 280 | - |
| Plywood, OSB, underlayment | porous | PE 260 | - |
| Dense coatings, ceramic tile, epoxy terazzo | non-porous | PE 280 | - |
| Metal with protective coating | non-porous | PE 280 | - |
| Bare metal-refer to UZIN Metal Adhesion Chart then prime | non-porous | PE 280 | - |

APPLICATION:

1. Optimum product application conditions are 60–77 °F (16–25 °C) and relative humidity between 40-60 %.
2. Pour 5.5–6.0 quarts (5.2–5.7 liters) of cold, clean water per 50 lb bag into a clean container.
3. Slowly pour in the powder and mix vigorously for 1 minute per bag until blended to a viscous, lump-free consistency. Use a heavy-duty drill with a UZIN Flat Cage or Oval mixing paddle (minimum 650 rpm).
4. Pour the mix onto the primed substrate. Working time is max. 15 minutes.
5. Coverage rate at 1/8" (3 mm) depth is approx. 60 sq. ft. per 50 lb bag.
6. Product has no depth limitation.
7. Distribute product evenly with a suitable gauging tool (A) and smooth or spike roll the wet finish promptly (B).

8. Product is dry to accept foot traffic after 60 minutes.
9. Ready for installation of common floor coverings after 1–12 hours. Depth of application, ambient conditions, and surface porosity will affect dry time.
10. Storage up to 6 months in original unopened packaging, when stored indoors in dry, moderate conditions between temperatures of 50F - 90F (10C - 32C).

UZIN PE 460 and UZIN PE 414 TURBO Coatings, Ceramic Tile, Dense and Smooth Coatings, Epoxy Terrazzo

Prime with UZIN PE 280. Apply UZIN NC 172 TURBO at a minimum of 1/32" (1 mm) for use with dispersion (water-based) adhesives for nonporous surfaces and two-component epoxy adhesives. Apply at 1/8" (3 mm) thickness when using dispersion wetset adhesives with resilient floor covering.

| Ready for Covering* | |
|--------------------------------|------|
| Common floor coverings | 1 h |
| Ceramic | 1 h |
| Natural stone, wood | 12 h |
| Two-component PUR, UZIN U-FIXX | 4 h |

*At 1/8" (3 mm) depth over porous surface at 70 °F (21 °C) and 50% RH.

IMPORTANT NOTES:

- ▶ High temperatures and low humidity will accelerate the setting, drying, and readiness for covering. Low temperature, high humidity, and greater depths will delay drying. In summer, store in cool conditions and use cold water.
- ▶ Do not apply to wet surfaces. Observe surface temperature at a minimum 5°F (3°C) above the dew point with temperature on the rise during application.
- ▶ Protect freshly applied material from drafts, direct sunlight, direct sources of heat, and freezing temperatures.
- ▶ For information regarding sand extension please call the UZIN Technical Dept.
- ▶ If multiple layers of leveling compounds are necessary, allow the first layer to dry completely and then prime with UZIN PE 260 (1:3 dilution) or PE 360 PLUS. The second layer must not exceed the thickness of the first layer.
- ▶ Substrate conditions (surface profile, density or surface strength, in-service use) are recommended to be qualified before application of leveling compounds that will exceed 1/2" (12.5 mm) depth. UZIN PE 460 reaction resin gritted with a broadcast of clean, dry sand #20 (ASTM U.S. Sieve Number) should be considered. Please contact UZIN for technical guidance.
- ▶ Maximum thickness over OSB substrates is 1/8"(3 mm), plywood 1/4" (6 mm).
- ▶ Do not use in exterior or wet areas.

- ▶ The following standards and product regulations apply:
 - ASTM F710 "Standard Practice for Preparing Concrete Floors To Receive Resilient Flooring"
 - ASTM C1708 "Standard Test Method for Self-leveling Mortars Containing Hydraulic Cements"
 - ASTM F2170 "Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes"
 - ASTM F1869 "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride"
 - ASTM C150 "Standard Specification for Portland Cement"
 - ASTM C219 "Standard Terminology Relating to Hydraulic and Other Inorganic Cements"

COMPOSITION:

Special cements, mineral aggregates, redispersible polymers and additives.

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Read and follow all safety and environmental precautions and instructions on the packaging label and the Safety Data Sheet (SDS). The SDS is available at www.uzin.com.

WARNING: This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

DISPOSAL:

Dispose of the material in accordance with applicable laws and regulations. Avoid product to get in contact with soil, waterways, drains, or sewers. Empty containers or liners may retain product residues.

INDOOR AIR QUALITY INFORMATION

Certification: SCS Indoor Advantage™ Gold

VOC content: 0 g/L; compliant with SCAQMD rule 1113

VOC emission: Conforms to the CDPH Standard Method (CA 01350) V1.2-2017; TVOC emission between 0.5 and 5.0 mg/m³