

Premium Plus - Moisture Tolerant, Low Slump, Patching and Repair Compound

UZIN NC 182 MT

Fast-setting, Portland cement-based repair compound for use at any depth

DESCRIPTION:

Moisture tolerant, fast setting, low slump, patching and repair compound for use at any depth. Fast-drying, Portland cement-based, high strength, easy to sand compound suitable for most floor coverings, including wood products, and in areas with heavy wear demands. Ideal for filling holes, cracks and making general surface repairs to concrete substrates. It is also recommended for smoothing and repair work on concrete stairs and ramping transition areas.

SUITABLE FOR:

- ▶ Interior use only
- ▶ Use over Portland cement-based and gypsum based leveling compounds
- ▶ Use over well bonded adhesive residues including cutback adhesive*
- ▶ Use over securely attached plywood, OSB, or other suitable wood substrates
- ▶ Residential and commercial applications
- ▶ Use with radiant floor heating systems

*See "Substrate Preparation" for additional information.



FEATURES AND BENEFITS:

- ▶ Moisture tolerant • Unaffected by moisture vapor up to 100% RH
- ▶ Versatile formula • Applies from 1/32" to unlimited
- ▶ Fast setting • Cover ready in as little as 1 hour (depths <3/8")
- ▶ Fine aggregates • For use as a skim coat
- ▶ Very high compressive and tensile strengths
- Exceeds most covering manufacturer recommendations

TECHNICAL DATA:

Packaging	20 lb. (9 kg) paper bag
Storage	min. 12 months in unopened bag
Water quantity	2-3 quarts (2-2.8 liters) per 20 lb. (9 kg) bag
Color	gray
Coverage	see coverage chart
VOC	0 g/L
Working time	15-30 minutes*
Ready for foot traffic	45 minutes. (depths < 3/8")*
Ready for covering	1 hour. depths < 3/8" (9 mm)* 1-3 hours depths between 3/8"-3/4" (9 mm-18 mm)* 18 hours for wood flooring*
Minimum application temperature	50 °F (10 °C) at floor level
Strength	compressive: 4,300 at 28 days (ASTM C109) flexural: 1,000 psi at 28 days (ASTM C348)

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



LEED®
contributing
product

PRODUCT PROPERTIES:

A universal, trowelable, fast setting, low slump patching and repair compound for any depth. This fine, cement-based material is suitable for filling holes, cracks and making general surface repairs to concrete substrates. It is also recommended for smoothing and repair work on concrete stairs and for ramping areas. It is a fast drying, high strength, easy to sand compound suitable for most floor coverings including wood products in areas with heavy wear demands.

Coverage rate per 20 lb. bag: (approx.*)	11.25 sq. ft. at 1/4" (1.04 m ² at 6 mm)
	7.5 sq. ft. at 3/8" (0.69 m ² at 9 mm)
	5.62 sq. ft. at 1/2" (0.52 m ² at 12 mm)
	2.81 sq. ft. at 1" (0.26 m ² at 25 mm)
	*Actual coverage may vary depending on substrate conditions

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 182 MT 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

*ASTM F2170 using in situ probes.

PRIMING:

UZIN NC 182 MT 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, gypsum and cement-based leveling compounds, cement terazzo*	porous	PE 360 PLUS	100%
	porous	PE 260	85%
	semi-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	-
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	-

Concrete Substrates with High Moisture

Apply only to concrete substrates with high moisture conditions. The concrete substrate must have some open porosity, with an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of at least CSP #1-2. The surface must be free of all contaminants, including but not limited to curing compounds, waxes, paint, patching compounds, adhesive residues, and dust. Priming highly absorbent surfaces with UZIN PE 360 PLUS will improve the UZIN NC 182 MT application efficiency and dry surface appearance.

UZIN NC 182 MT may be used to repair concrete substrates before applying UZIN PE 460 and UZIN PE 414 TURBO as a moisture vapor retarder. The concrete substrate must have some open porosity, with an ICRI CSP #2-3. Contraction joints (control joints) filled full-depth, dormant

cracks, and confined surface imperfections must be filled flush with the surrounding surface. Do not use for an entire area (skimcoat) application. Allow 2 hours dry time before applying the UZIN moisture vapor retarder coating.

Substrates and Surfaces Without High Moisture:

UZIN primer is required over suitably prepared concrete, portland cement-based leveling compounds, and wood surfaces. Use UZIN PE 260 or UZIN PE 360 PLUS to improve the UZIN NC 182 MT skimcoat application efficiency and dry surface appearance.

Gypsum Concrete, Gypsum-Based Leveling Compounds

Prime with UZIN PE 260 or UZIN PE 360 PLUS.

Existing Adhesive Layers

Non-water-soluble and weak moisture sensitive adhesive layers are recommended to be removed to thin residual staining of the substrate surface. Prime with UZIN PE 280. Remove water-soluble adhesive layers completely. Carefully review the floor covering and adhesive substrate requirements. If necessary, contact UZIN for technical guidance.

Quarry Tile, Natural Stone, Cement Tarrazzo

Prime with UZIN PE 280.

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

Prime with UZIN PE 280. For metal surfaces with a protective coating, prime with UZIN PE 280. For bare metal surfaces, please refer to the UZIN Metal Adhesion Chart for guidance, and then prime with UZIN PE 280.

Apply UZIN NC 182 MT at a minimum of 1/32" (1 mm) for use with dispersion (water-based) adhesives for non-porous surfaces and two-component epoxy adhesives.

Apply at 1/8" (3 mm) thickness when using dispersion wet-set adhesives with resilient floor covering or select a suitable UZIN self-leveling compound.

APPLICATION:

1. Optimum application 60–70 °F (16–21 °C), and relative humidity below 65%.
2. Pour 2–3 quarts (2–2.8 liters) cold, clean water into a clean container. Pour in UZIN NC 182 MT.
3. Mix vigorously for approx. one minute using a heavy-duty drill and UZIN Flat Cage Mixer. (avg drill speed 300-450 rpm).
4. Apply compound onto substrate. Observe working time.
5. Coverage 1/4" (6 mm) is approx. 11.25 sq. ft. (20 lb. bag).
6. Product has no depth limitation.
7. Ready for foot traffic after approx. 45 min. (depths ≤ 3/8").
8. Ready for install of common floor coverings after approx. 1 hr. (depths ≤ 3/8").
9. Product has a minimum 12-month storage life in original packaging when stored indoors in dry conditions. The

product setting and drying characteristics may increase if the storage time is extended. The properties of the cured material are not affected.

IMPORTANT NOTES:

- ▶ Tightly reseal opened packaging and use the contents as quickly as possible.
- ▶ 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.
- ▶ To extend working time, occasionally stir moderately. Do not retemper with additional water.
- ▶ Over porous substrates, a pump sprayer or sponge is recommended to apply clean water to dampen the surface of the substrate. This will enhance the optical appearance of the cured product. Allow water to absorb into the surface of the substrate before applying UZIN NC 182 MT. Do not apply to wet surfaces (pooled water).
- ▶ Prior to applying UZIN dispersion adhesives over UZIN NC 182 MT, it is recommended to use either UZIN PE 260 (diluted 1:3), or UZIN PE 360 PLUS to prime the cured surface. This will aid in regulating the flash times of UZIN dispersion adhesives.
- ▶ Protect freshly applied material from drafts, direct sunlight, direct sources of heat, and freezing temperatures.
- ▶ A floor covering must protect the UZIN NC 182 MT application, including areas with frequent standing water conditions.
- ▶ Allow 18 hours dry time for use with high-performance, two-component epoxy, and wood flooring adhesives.
- ▶ Do not use for an entire area (skimcoat) application below glue down wood flooring.
- ▶ UZIN NC 182 MT is suitable for use up to 100% RH per ASTM F2170, 25 lb. MVER per ASTM F1869.
- ▶ The following standards and product regulations apply:
 - ASTM F710 "Standard Practice for Preparing Concrete Floors To Receive Resilient Flooring"
 - 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 C109 "Standard Test Method for Compressive Strength of Hydraulic Cement Mortars"
 - ASTM C150 "Standard Specification for Portland Cement"
 - ASTM C219 "Standard Terminology Relating to Hydraulic and Other Inorganic Cements"
 - ASTM C348 "Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars"

COMPOSITION:

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

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:

For disposal and recycling, follow the applicable laws and regulations. When possible, avoid or minimize waste generation. Do not allow the material to get into sewers, waterways or unlined ground surfaces. Empty packaging can be recycled.

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; 5.0 mg/m³ or less TVOC emission.