Product Datasheet

PREMIUM PLUS – Moisture Tolerant Turbo Patching Compound

NC 888 MT

Polymer-modified portland-based fine smoothing compound

DESCRIPTION:

Moisture-tolerant, rapid-drying, fine repair mortar used to smooth and fill imperfections on interior surfaces before installing floor covering materials. When mixed with water, this polymer-modified compound of Portland and select hydraulic cement can be applied to various surfaces, often without the need for a primer. It is suitable for use with all floor coverings and adhesives.

SUITABLE FOR:

- Interior use only
- Use over concrete substrates without an RH% limit
- Use over cement-based leveling compounds
- Use over wood, plywood, OSB, and underlayment panels
- Use over well-bonded adhesive residues, including cutback adhesive*
- Use over quarry tile, natural stone, or terrazzo
- Use over UZIN PE 460 and UZIN PE 414 TURBO coatings
- Use over ceramic tile, dense and smooth coatings, and metal
- Use as an embossing filler over residential sheet vinyl
- Residential and commercial applications
- Use with radiant floor heating systems

*See "Substrate Preparation" for additional information.



FEATURES AND BENEFITS:

- Unlimited moisture tolerance – No RH% limit
- Polymer-modified – Extreme bond strength and durability
- Retains mixed water – Superior skim coat application
- Fast-dry formula – 15 minutes on absorbent substrates
- High strength – Suitable for caster wheels



TECHNICAL DATA:

Packaging	10 lb (4.5 kg) foil bag
Storage	Up to 9 months**
Mixing ratio	Part measures: 2:1 (powder to water)
Water quantity	2.2 – 2.5 quarts per bag (2.1 – 2.4 liters)
Color	Gray
Applied coverage	Up to 100 – 350 sq. ft. (9.29 – 32 m²) skim coat (bag)*
VOC	0 g/L
Working time	15–20 minutes*
Ready for foot traffic	10–60 minutes*
Ready for covering	15–120 minutes* 12 hours for moisture sensitive floor coverings*
Minimum application temperature	50 °F (10 °C) at substrate
Strength	Compressive: >3,000 psi at 28 days ASTM C109

*Applied coverage refers to the product's spread rate at the indicated layer thickness, based on practical application experience rather than physical properties. At 70°F (21°C) and 65% relative humidity. 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 50 – 90°F (10 – 32°C).

LEED® contributing product

MADE IN U.S.A.

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NC 888 MT

PRODUCT PROPERTIES:

UZIN NC 888 MT can be troweled on as a skim coat and feather edge up to 1" (25 mm) depth.

UZIN NC 888 MT meets ASTM F710 patching compound requirements for moisture, mildew, and alkali resistance, including the 3,000 psi compressive strength specification for commercial applications.

Product Density	lbs ft3
Wet	95 +/- 2 lbs
Dry (at 28 days)	83 +/- 2 lbs

SUBSTRATE PREPARATION:

- The subfloor must be structurally sound, solid, dry, free of active cracks, clean, and free of all contaminants, including, but not limited to, dust, grease, oil, paint, wax, curing and sealing compounds, and 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 888 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	98%	5-14	PE 280

*ASTM F2170 using in situ probes.

PRIMING:

If priming in a high moisture environment is required, use UZIN PE 360 Plus. For detailed UZIN primer information, please refer to the UZIN primer datasheet at us.uzin.com or contact UZIN for technical guidance.

If installing where high moisture is not a factor, refer to the UZIN Primer Quick Reference Chart:

UZIN Primer Quick Reference Chart			
Surface	Absorbency	UZIN Primer	Max RH
Concrete-all grade levels, gypsum and cement-based leveling compounds, cement terrazzo*	porous	PE 360 PLUS	100%
	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 terrazzo	non-porous	PE 280	-

No primer is required over suitably prepared concrete, portland cement-based leveling compounds, and wood surfaces. However, priming highly absorbent surfaces with UZIN PE 360 PLUS will improve the efficiency of UZIN NC 888 MT skim coat application and the dry surface appearance.

Gypsum Concrete, Gypsum-Based Leveling Compounds

- Refer to the manufacturer's moisture limitations and prime with UZIN PE 260 or UZIN PE 360 Plus.

Existing Adhesive Layers

- No primer required for non-water-soluable adhesive, it's recommended to be removed to thin residual staining of the substrate surface.
- Refer to the Resilient Floor Covering Institute's (RFCI) recommended work practices for the removal of adhesives containing asbestos.
- Remove water-soluble adhesive layers completely.

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- Carefully review the floor-covering and adhesive-substrate requirements.
- If necessary, contact UZIN for technical guidance.

Quarry Tile, Natural Stone, Cement Terrazzo

- No primer required.

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 888 MT 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 or select a suitable UZIN self-leveling compound.

Embossing Filler

- UZIN NC 888 MT can be used as an embossing filler over existing well-bonded full-spread adhered residential sheet vinyl.
- Do not apply over perimeter bonded floor coverings or cushion-backed flooring thicker than 0.08".
- Prime with UZIN PE 280. Use the least amount of UZIN NC 888 MT as possible to fill the embossed texture.
- Select a floor covering adhesive for non-porous surfaces to install the floor covering.

Under Moisture Control Systems

- In well defined areas such as small holes or depressions.
- Penetrations and control joints in the slab need to be treated with UZIN KR 518.

APPLICATION:

1. Optimum product application 60–77 °F (16–25°C) and ambient relative humidity between 40–60%.

2. To mix a full 10 lb bag, pour 2.2–2.5 quarts (2.1–2.4 liters) of cold, clean water into a clean container. **Do not add more water than recommended.**

3. Pour in UZIN NC 888 MT and mix product vigorously for approx. one minute at an average drill speed of 300–450 rpm.

4. To mix smaller amounts, the ratio is two parts powder to one part water (2:1). Use a margin trowel to hand-stir the mixture to a lump-free paste consistency.

5. Apply compound to the substrate using a smoothing trowel.

6. Storage up to 9 months in original unopened packaging when stored indoors in dry, moderate conditions between temperatures of 50 – 90°C (10 – 32°C). 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 of 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.**
- Protect freshly applied material from drafts, direct sunlight, and direct sources of heat.
- A floor covering must protect the UZIN NC 888 MT application.
- Allow 12 hours dry time for use with high-performance, two-component epoxy, and wood flooring adhesives.
- Do not use for an entire area (skim coat) application below glue-down wood flooring.
- UZIN NC 888 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 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 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”

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

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California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

DISPOSAL:

For disposal of products, follow the applicable laws and regulations. Do not allow the material to get into sewers, waterways or unlined ground surfaces. Empty packaging may contain product residue.

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

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