

Premium Pro – Moisture Resistant Skim and Repair Compound

UZIN NC 890 HYDROPATCH

High-performance portland-based fine smoothing compound

DESCRIPTION:

Formulated primarily to repair concrete substrates with up to 100% RH to fulfill today's higher moisture-resistant adhesive and floor covering requirements. UZIN NC 890 HYDROPATCH is also recommended to fill joints, cracks, and localized repair areas before using UZIN PE 460 and UZIN PE 414 TURBO moisture vapor retarder coatings. Mixed with water, this polymer-modified compound of portland and select hydraulic cement can be applied to various surfaces, often without the requirement of a primer. Suitable for use with all floor coverings and adhesives.

SUITABLE FOR:

- ▶ Interior use only
- ▶ Use over concrete up to 100% RH
- ▶ 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, terrazzo
- ▶ Use beneath UZIN PE 460 and UZIN PE 414 TURBO
- ▶ Use over ceramic tile, dense and smooth coatings, metal
- ▶ Residential and commercial applications
- ▶ Use with radiant floor heating systems

*See: "Substrate Preparation" for additional information.



FEATURES AND BENEFITS:

- ▶ Polymer-modified • Enhanced bond and durability
- ▶ Retains mix water • Superior skimcoat application
- ▶ Moisture resistant • For high moisture areas <100% RH
- ▶ High strength • Suitable for caster wheels

TECHNICAL DATA:

Packaging	10 lb. (4.5 kg) foil bag
Storage	up to 9 months**
Mixing ratio	0.87–0.92 quarts per half bag (0.83–0.87 liters per half bag)
Water quantity	1.75-1.85 quarts per bag (1.67-1.75 liters per bag)
Color	gray
Applied coverage	up to 100-250 sq. ft. skimcoat (bag)* up to 9.29-23 m ² skimcoat (bag)*
VOC	0 g/L
Working time	15 minutes*
Ready for foot traffic	30-60 minutes*
Ready for covering	30-120 minutes* 16 hours for wood flooring*
Minimum application temperature	50 °F (10 °C) at floor level
Strength	compressive: 3,000 psi @ 28 days. ASTM C109 air and water cure

*Applied coverage refers to the product's spread rate at 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 50F - 90F (10C - 32C).



PRODUCT PROPERTIES:

UZIN NC 890 HYDROPATCH can be trowel applied as a skimcoat and feather edge up to 1/2" (12.5 mm) depth. Meets ASTM F710 recommended 3,000 psi compressive strength specification for commercial application.

Product Density	lbs ft ³
Wet	96 +/- 2lbs
Dry (at 28 days)	86 +/- 2lbs

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 890 HYDROPATCH 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 required, select a UZIN primer according to floor surface type and absorbency. 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 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	-

Concrete Substrates with High Moisture

No primer required. 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 890 HYDROPATCH application efficiency and dry surface appearance.

UZIN NC 890 HYDROPATCH 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:

No primer is required over suitably prepared concrete, portland cement-based leveling compounds, and wood surfaces. However, priming highly absorbent surfaces with UZIN PE 260 or UZIN PE 360 PLUS will improve the UZIN NC 890 HYDROPATCH 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

No primer required. Non-water-soluble and weak moisture-sensitive adhesive layers are recommended to be removed to thin residual staining of the substrate surface. 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 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 890 HYDROPATCH 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.

Embossing Filler

UZIN NC 890 HYDROPATCH 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 890 HYDROPATCH as possible to fill the embossed texture. Select a floor covering adhesive for non-porous surfaces to install the floor covering.

APPLICATION:

1. Optimum product application 60–77 °F (16–25 °C) and relative humidity between 40–60 %.
2. To mix a full 10 lb. bag – Pour 1.75–1.85 quarts (1.65–1.75 liters) cold, clean water into a clean container. Do not add more water than recommended.
3. Pour in UZIN NC 890 HYDROPATCH and mix product vigorously for approx. one minute at average drill speed of 300–450 rpm.

4. To mix part measures 0.87–0.92 quarts (0.83–0.87 liters) per 5 lb. (2.25 kg) half bag. Use a margin trowel to hand stir the mixture to a lump-free paste consistency. Observe working time (15 min).
5. Apply compound to substrate using a smoothing trowel.
6. Coverage rate at a skimcoat is approx. 100–250 sq. ft. per 10 lb bag.
7. Product has a depth limit of 1/2" (12.5 mm).
8. Dry for foot traffic after approx. 30 min (for skimcoat applications).
9. Ready for install of common floor coverings after approx. 30–120 minutes over absorbent substrates (skimcoat–1/2" depth).
10. Storage up to 9 months in original unopened packaging when stored indoors in dry, moderate conditions between temperatures of 50F - 90F (10C - 32C). 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 890 HYDROPATCH. Do not apply to wet surfaces (pooled water).
- ▶ Prior to applying UZIN dispersion adhesives over UZIN NC 890 HYDROPATCH, 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, and direct sources of heat.
- ▶ A floor covering must protect the NC 890 HYDROPATCH application.
- ▶ Allow 16 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.
- ▶ NC 890 HYDROPATCH 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 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