

Premium Plus – Low slump patching and repair compound

UZIN NC 182

Fast setting, universal low slump patching and repair compound for any depth

Description:

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 transition 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.

For interior use only.

Suitable for:

- ▶ Producing level, absorbent, flat and smooth surfaces for virtually all floor coverings including wood, carpet and resilient coverings such as PVC cushioned vinyl, PVC design flooring, linoleum, cork, rubber or polyolefin coverings, ceramic tile and natural stone
- ▶ Use as a smoothing layer over structurally sound solid concrete in new construction or renovation projects above, on or below grade, cast in place or pre-cast concrete
- ▶ Use as a smoothing layer over existing hard surface flooring such as well-bonded terrazzo, ceramic tile, stone and well-bonded epoxy coatings. These surfaces must be primed with UZIN PE 260 or UZIN PE 280
- ▶ Use over new, sound OSB underlayment or equally rated subfloor materials
- ▶ Existing substrates with thin and dense non-water-soluble adhesive residues on concrete including asphalt mastic
- ▶ High stress loads in residential, commercial and industrial locations such as hospitals, shopping centers, industrial facilities
- ▶ Use over radiant floor heating systems



Features

- No depth limitation
- Fast setting, very smooth surface
- Low stress formula
- Very high compressive and tensile strengths
- Exceptionally fine aggregates
- Meets strict EMICODE EC 1 PLUS criteria
- Compliant with CDPH/EHLB/Standard Method Version 1.2, 2017 (emission testing method for CA specification 01350)

Benefits

- Versatile, can be extended with sand
- Accelerates floor covering installation
- Ability to cover difficult substrates
- Exceeds most floor covering manufacturer recommendations
- Allows UZIN NC 182 to obtain a true feather edge and can be used as a skim coat
- Healthy indoor air quality
- Recognized by standards and codes: USGBC LEED Version 4, BD&C, ID&C, The WELL Building Standard, ANSI/GBI 01, Green Building Assessment Protocol

Technical Data:

Packaging:	20 lb. (9 kg) paper bag
Storage:	minimum 12 months
Water ratio:	2 – 3 quarts (2 – 2.8 liters) per 20 lb. (9 kg) bag
Color:	Grey
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
Surface pH:	9 (when tested in accordance with ASTM F710)
VOC:	0 calculated
Working temperature:	min. 50°F (10°C) at floor level
Working time:	15 to 30 minutes
Ready for covering:	1 hour* for depths less than 3/8" (9 mm) 1 to 3 hours* for depths between 3/8" (9 mm) and 3/4" (18 mm) 18 hours* for wood flooring
Compressive strength:	4300 psi after 28 days (ASTM C109M-12)
Flexural strength:	1000 psi after 28 days (ASTM C348-08)

* At 70°F (21°C) and 65% relative humidity.
Depth of application and surface porosity will affect dry time.

Substrate Preparation:

The subfloor must be structurally sound, solid, dry, free from active cracks, clean and free of all contaminants such as grease, oil, paint, wax, curing and sealing compounds that would impair adhesion. Test the substrate in accordance with applicable standards relative to moisture content. Lightweight concrete must have a minimum compressive strength of 3000 psi and 75 lbs surface density. Any weakly bonded or soft surface material such as loose patching compounds, leveling compounds, floor coverings or coatings must be removed by shot blasting, abrading, grinding or wet scraping. Thoroughly vacuum off all loose material or dust. **Caution: Do not sand or grind adhesive residue, as harmful dust may result. Inhalation of asbestos dust may cause asbestosis or other serious bodily harm.**

Refer to the Resilient Floor Covering Institute's publication "Recommended Work Practices for Removal of Resilient Floor Coverings" for instructions.

In case of an application depth of more than 1/8" (3 mm) using UZIN primers is recommended. Select suitable primer from the UZIN Product Guide according to surface type and condition or call the UZIN Technical Department for assistance. Allow primers to dry thoroughly. UZIN NC 182 can be used as a smoothing layer over existing hard surface flooring such as well-bonded terrazzo, ceramic tile, stone and well-bonded epoxy coatings. These surfaces must be primed with UZIN PE 260 or UZIN PE 280 for smoothing applications of 1/4" (6 mm) or less.

As with all polymer modified cements, it is always recommended to test for moisture content of the existing substrate to ensure that it meets the floor covering manufacturer's requirements. Cement based products are not designed as a moisture barrier. Moisture mitigation must be addressed prior to the application of UZIN NC 182. Select a suitable UZIN moisture vapor retarder.

For additional information regarding subfloor preparation, please refer to the UZIN "Substrate Preparation Guide".

Application:

1. Mix a 20 lb. bag of NC 182 with 2 – 3 quarts (2 – 2.8 liters) of cold, clean water in an appropriate size mixing container (for partial quantities use 8.5 ozs – 10 ozs of water for every 2.25 lbs. of powder).
2. After adding required amount of cold water into a clean container. Slowly pour in the UZIN NC 182 powder and mix vigorously, blending to a viscous, lump-free consistency using a heavy-duty drill fitted with an UZIN Flat Cage Mixing attachment (minimum 650 rpm). Do not overwater.
3. Apply with a smoothing trowel. Allow a minimum depth of 1/8" (3 mm) for exposure to caster wheels.

Refer to the floor covering manufacturer regarding the maximum allowable substrate moisture content and qualify the substrate prior to installing UZIN NC 182.

Always install adequate test areas including the finish flooring, to determine the suitability for the intended use. As floor coverings vary, always contact and rely upon the floor covering manufacturer for specific directives, such as maximum allowable moisture content, adhesive selection and intended end use of the product.

Drying Time:

Ready for covering after approx 1 hour* for depths less than 3/8" (9 mm). Allow approximately 1 to 3 hours* drying time for depths between 3/8" (9 mm) and 3/4" (18 mm). Ready for wood floor installation after 18 hours*. Sanding with 36 – 60 grit disc increases surface quality and improves appearance and absorbency.

NOTE: Do not use where floor surface temperature is below 50°F. Low temperatures, high humidity and greater depth will delay dry times and readiness for covering.

* At 70°F (21°C) and 65% relative humidity.

Important Notes:

- ▶ Storage: minimum 12 months in original packaging when stored in dry conditions. Tightly reseal opened packaging and use the contents as quickly as possible.
- ▶ Optimum application conditions are 60°F to 70°F (15°C to 20°C) and relative humidity below 65%. Low temperatures, high humidity and greater depth will delay dry times while high temperatures and low humidity will accelerate setting, drying and readiness for covering. In summer, store in cool conditions. Use cold water for mixing.
- ▶ Expansion, movement and wall connection joints must be honored through the floor covering. Where necessary, fit UZIN Expansion Strips to any structures to prevent the mix from flowing into connection joints. For depths greater than 1/4" (6 mm) expansion strips are highly recommended.
- ▶ Minimum 1/8" (3 mm) depth for resistance to casters.
- ▶ When smoothing with a self-leveling compound (where one or more layers of compound are being applied) each layer must be allowed to dry completely. Apply UZIN PE 260 as intermediate primer after self-leveling compound has dried at least one hour. Allow UZIN PE 260 to dry to a clear, transparent, almost tack free film (refer to the UZIN PE 260 product data sheet for dry times).
- ▶ For depths greater than 3/8" (9 mm) on surfaces that are moisture sensitive or weak (old adhesive residues) use a suitable UZIN 2-component epoxy Moisture Vapor Retarder gritted with a broadcast of sand.
- ▶ For applications in exterior or wet conditions, UZIN NC 182 must be protected with a topical waterproof membrane. UZIN HS 100, HS 200 and BalkuSlim System are recommended membranes.
- ▶ Protect freshly smoothed areas from drafts, direct sunlight and sources of heat. Cementitious compound layers on soft or tacky substrates tend to form cracks. Soft or tacky layers must be removed before applying smoothing compounds. Leaving such compound layers open too long also promotes cracking and should be avoided.
- ▶ The following standards, regulations and notices are applicable and especially recommended:
 - ASTM F710-11 "Standard Practice for Preparing Concrete Floors To Receive Resilient Flooring".
 - ASTM C 109 modified "Test method for compressive strength of hydraulic cement mortars".
 - ASTM F1869-11 "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride".
 - ASTM F2170-11 "Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes".

Protection of the Workplace and the Environment:

Precautions:

Carefully read and follow all precautions and warnings on the product label. For complete safety information, please refer to the Safety Data Sheet (SDS) available at www.uzin.us.

Disposal:

Dispose of empty packaging according to local, state and federal regulations. Do not allow product to get into drains, watercourses or landfill. Hardened product residues are considered construction waste. Therefore collect waste material, mix with water and allow to harden, then dispose of as construction waste. Empty paper bags are recyclable.

The above information is based on our experience and testing. Uzin Utz North America, Inc. is not responsible for the variety of associated materials and variable construction and working conditions that occur on jobsites. The quality of your work depends on your own professional judgment and product usage. If in doubt of any application recommendation or instruction, conduct a small test or obtain technical advice. Observe the installation recommendations of the floor covering manufacturer. The publication of this Product Data Sheet invalidates all previous Product Information.