PRODUCT DATA SHEET

Universal Primer

UZIN PE 421

Dispersion primer for absorbent substrates, screeds and concrete floors, walls, and ceilings

Applications:

Concentrated, fast-drying dispersion primer for pretreatment of absorbent mineral substrates, before the application of cement based and self-levelling compounds, preferably prior to painting and water insulation works. Suitable to use on floors, walls, and ceilings. For interior and exterior applications.

Suitable for use on:

- Absorbent substrates such as cement screeds, cement/ plaster-based levelling compounds or concrete
- Calcium sulphate screeds/fiber-reinforced gypsum panels
- Cement plasters, calcium/cement plasters, plasterboard panels
- Application under low-slump and self-levelling compounds
- Mineral substrates before the architectural coating's application for interior and exterior uses
- Before water-insulation works with film-generating materials and thermo-insulating systems.
- Areas of high traffic in residential, commercial, and industrial areas

Product benefits / features:

UZIN PE 421 penetrates well into the substrate and has film-forming properties. As a result, UZIN PE 421 not only offers excellent cohesion but acts simultaneously strongly reductive to substrate's absorbency.
Substrates sensitive to moisture are protected from the water from levelling compounds and adhesives, while, for extremely absorbent substrates.

Ingredients: Modified styrene acrylic copolymer, wetting, anti-foaming agents and preservative.

- Concentrated/ Economic
- Dilution ratio up to 3 parts water:1 part UZIN PE 421
- Fast - drying
- Excellent penetration, forms film immediately
- High performance
- Spray-able
- Does not contain solvents
- Very low emissions

Technical Data:

Packaging:	Plastic containers PE
Sizes:	13kg, 5kg and 1kg
Storage:	minimum 12 months
Color liquid/dry:	White/transparent
Water dilution ratio:	Up to 3 parts water:1 part UZIN PE 421
Consumption /coverage:	25 - 30 g/m² with water 1:3 parts 35 - 40 g/m² with water 1:2 parts 50 - 60 g/m² with water 1:1 part
Minimum working temperature:	10 °C
Ideal working temperatures:	15 - 25 °C substrate surface
Drying time or covered after:	30 - 60 minutes*

* At 20 °C and 65% R.H. See also Application table".

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Substrate preparation:

The substrate must be sound, load bearing, dry, free from cracks, clean and free from materials (dirt, oil, grease), that would impair adhesion. Cement and calcium sulphate screeds must be abraded and vacuumed off. Test the substrate in accordance with applicable standards and bulletins and report any deficiencies.

Any adhesion-reducing or unstable layers e.g., release agents, loose adhesives, compounds, covering or paint residues etc. must be removed, e.g., by brushing, abrading, grinding, or shot-blasting. Thoroughly vacuum off loose material and dust. Allow any primers that are applied to dry completely.

Refer to the product data sheets for other products used.

Application:

1. Allow the container to reach room temperature before use and shake well, and then decant the contents into a clean, oval bucket.
2. Apply primer coat using a UZIN Nylon Fiber Roller, 25 cm/14 mm or lamb's wool roller generously and over the whole of the substrate surface. At edges or walls, the primer coat can also be applied with a standard paintbrush or other type of brush. Where substrates are strongly absorbent, do not pour onto the substrate to avoid excessive local saturation; in some cases, a second coat may be required.
3. Clean tools with water immediately after use.

Application Table:

Substrate	Coverage	Drying time
Cement screeds, cement level-ling compounds or concrete	25 - 40 g/m^2	approximately 30 minutes*
Calcium sulphate screeds, plaster-based precast concrete, plaster substrates, render	25 - 40 g/m^2	approximately 60 minutes*
Weakly absorbent, less porous substrates	25 - 40 g/m^2	approximately 60 minutes*

* at 20°C and 65% relative humidity

Important notes:

- Shelf-life min. 12 months in original packaging when stored in moderately cool conditions. Frost-resistant to -4 °C. Reseal opened containers tightly and use content as quickly as possible. Allow primer to reach room temperature before processing.
- Optimum working at 15-25°C, floor temperature over 15°C and rel. humidity below 65%. Low temperatures and high humidity will delay whilst high temperatures and low humidity will accelerate the drying time.
- A second coat is recommended on strongly absorbent substrates.
- Allow levelling compound to dry completely, apply UZIN PE 421 universal primer as an intermediate primer and apply subsequent levelling compound after drying. The second application must not exceed the thickness of the first one.
- Where levelling produces layers exceeding 10 mm, an epoxy resin primer such as UZIN PE 480 (sanded) is required.
- Not suitable for use on water-soluble adhesive remnants (e.g., spent sulphatic lye adhesives) or old bitumen adhesive remnants. In such cases, use a suitable primer from the current UZIN Hellas product range.
- Not suitable for use as a moisture barrier.
- Not suitable for use as a primer directly under wood floor adhesives.
- Do not use chipboard panels, OSB panels or other wood-based substrates.
- Do not use non-mineral substrates or on magnesium- and xylolite-based screeds.
- Observe generally acknowledged industry and technology best practice when laying floor coverings, plus the respective applicable national standards.

Protection of the workplace and the environment:

Solvent-free. The use of skin protection lotion is recommended as a rule. Store out of the reach of children. Ensure thorough ventilation during and after working / drying! Do not eat, drink, or smoke while working with the product. In the event of contact with the eyes or skin, rinse immediately with plenty of water. Do not dispose of into the sewer system, open water, or the soil. Clean tools with water and soap immediately after use. Very low emission. To the best of current knowledge, does not emit any relevant emissions of formaldehyde, harmful substances, or other volatile organic compounds (VOCs). Odorless as well as ecologically and physiologically harmless when fully dried. Basic prerequisites for optimal interior air quality after floor covering work depend on installation conditions conforming to standards, plus thoroughly dried substrates, primers, and levelling compounds. Product contains isothiazolinones. **For allergy information, call Poison Center +30 210 7793777 (Greece).**

Disposal:

Collect and reuse product residues wherever possible. Do not dispose of into the sewer system, open water, or the soil. Empty, plastic containers (scraped clean and drip-free) can be recycled. Containers with liquid residues are classified as special waste, as are collected liquid product residues. Containers with residues that have dried solid are classified as construction/ household waste.

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ΕΛΟΤ EN 13813

Primer of synthetic resins for mineral substrates

Impact resistance	**Pass**
Bond strength	**B1,0**
Reaction to fire	**NPD**
Release of corrosive substances	**NPD**
Water permeability	**NPD**
Water vapour permeability	**NPD**
Compressive strength CT	**NPD**
Flexural strength	**NPD**
Wear resistance	**NPD**
Sound insulation	**NPD**
Sound absorption	**NPD**
Thermal resistance	**NPD**
Chemical resistance	**NPD**