

Dispersion Moisture Barrier

# UZIN PE 400



Dispersion primer for rapid blocking of unheated cement screeding to a maximum residual moisture of up to 90 % RH

## Description:

Dispersion primer on polyvinyl chloride base (PVDC) for the blocking of floating cement screeding or cement screeding resting on separation layer, moisture-resistant, up to a maximum residual moisture value of up to 90 % RH. For reception of all UZIN levelling compounds prior to the bonding of textile and elastic floor coverings, as well as wood flooring, in the interior area.

Suitable for / on:

- ▶ the blocking of increased residual moisture to up to 90 % RH, in case of unheated cement screeding
- ▶ the blocking of old odours from the substrate, e.g. in case of old, malodorous, water-proof adhesive residues
- ▶ the subsequent levelling work of all UZIN levelling compounds prior to the laying of textile and elastic floor coverings of all types, e.g. textile surfaces, PVC / CV coverings, PVC design flooring, linoleum or rubber coverings
- ▶ the subsequent levelling work with UZIN wood flooring levelling compounds prior to the bonding of wood flooring
- ▶ normal stress demands in the residential and commercial sectors
- ▶ stressing with chair castors to DIN EN 12 529



UZIN ÖKOLINE



## Product Properties / Benefits:

The 1-component moisture barrier is the ideal problem solver in case of new cement screeding, often drying badly with slightly increased moisture. The processing is simple, rapid and clean. The total consumption quantity with approx. 200 g/m<sup>2</sup> is very low, and there is no material loss through curing, as in case of 2-component products.

**Composition:** PVDC dispersion, wetting and anti-foaming agents, water.

- ▶ Simple handling
- ▶ Very rapid drying
- ▶ Blocking effect up to 90 % RH
- ▶ Without quartz sand sprinkling
- ▶ Solvent-free
- ▶ EMICODE EC 1 PLUS / very low emission
- ▶ RAL-UZ 113 / environmentally friendly, due to very low emissions

## Technical Data:

Packaging:	plastic canister
Packsize:	12 kg
Shelf life:	min. 12 months
Colour liquid / dry:	beige / transparent
Danger features:	none
Consumption of 1st coat:	60 – 70 g/m <sup>2</sup> , thinned 1:1
Consumption of 2nd coat:	120 – 130 g/m <sup>2</sup> pure
Total consumption quantity:	approx. 200 g/m <sup>2</sup>
Working temperature:	min. 10 °C / 50 °F at floor level
Ideal working temperature:	15 – 25 °C / 59 – 77 °F at floor level
Thinned drying time:	approx. 1 hour*
Undiluted drying time:	approx. 2 hrs.* prior to levelling work

\* At 20 °C / 68 °F and 65 % relative air humidity.

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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) which would impair adhesion. Cement screeding must be abraded and vacuumed off. Test the substrate in accordance with applicable standards and specification sheets and report any deficiencies.

Remove any adhesion-reducing or unstable layers e.g. cement elutriate, separating layers and sintering layers and similar, e.g. by brushing off, abrading, grinding off or gently shot-blasting. UZIN PE 400 cannot penetrate sufficiently on sealed substrates, therefore the absorption capacity must first of all be checked and, where appropriate, established. Grind off polished screeds or gently shot-blast. Thoroughly vacuum off loose material and dust. Allow primer to dry out completely.

Refer to the Product Data Sheets for other products used.

## Application:

1. Allow containers to come to room temperature before use and shake thoroughly.
2. Apply priming on the substrate with the UZIN foam roller uniformly, fully, over entire surface and pore-filling. The first application is thinned 1:1 with water. The 2nd application is pure and carried out in crossways application after a drying period of approx. 1 hour. Avoid puddle formation.
3. Clean tools with water immediately after use.

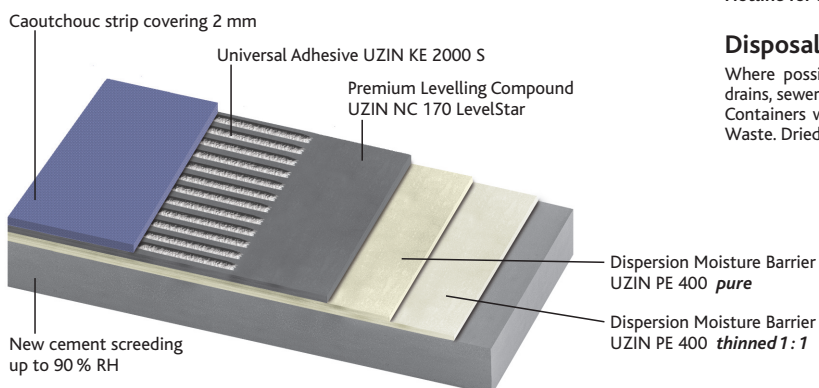
## Application Table:

Allow to dry out to a film which is transparent and accessible to traffic:

	Thinning	Consumption	Drying time
1st application	1:1 water	60 – 70 g/m <sup>2</sup>	approx. 1 hour*
2nd application	pure	120 – 130 g/m <sup>2</sup>	approx. 2 hours*

\*At 20 °C/68 °F and 65 % relative air humidity.

## Application Example:



## Important Notes:

- ▶ Shelf life minimum 12 months in original container in case of moderately cool storage. Protect against frost. Tightly re-seal opened containers and use the contents as quickly as possible. Process material mixed with water within a few days.
- ▶ Optimum working conditions are 15 – 25 °C/59 – 77 °F, floor temperature above 15 °C/59 °F and relative humidity below 65%. Low temperatures and high air humidity extend the drying time, high temperatures and low air humidity shorten the drying time.
- ▶ In case of soil-contacting screed constructions, concrete bottoms or cement screeding are to be employed over 90 % RH epoxy resin priming, sanded off, such as UZIN PE 460 or UZIN PE 480.
- ▶ UZIN PE 400 must not be employed on floor areas where the continuous action of moisture could cause damage (e.g. calcium sulphate screeds, magnesia and stone wood screeds etc).
- ▶ In case of smoothing work above 10 mm layer thickness, epoxy resin primers are to be employed, such as UZIN PE 460, sanded off.
- ▶ With employment under wood flooring, intermediate smoothing is always to be used. A direct bonding on PE UZIN 400 is not admissible.
- ▶ The surface roughness, surface strength, homogeneity and absorption capacity of the substrate is of decisive importance to the bond strength and ultimately the functionality of the blocking priming. On a structurally sound surface, the sealing system can ideally dig in and counter any possible moisture penetration.
- ▶ Follow the generally acknowledged rules of the trade and of technology for the installation of floor covering and wood flooring of the respective applicable national standards (e.g. EN, DIN, OE, SIA, etc.). The following apply as well or are recommended for special consideration:
  - DIN 18 365 „Working with floor coverings”
  - DIN 18 356 „Working with wood flooring”
  - TKB specification sheet „Assessing and preparation of substrates for floor covering and parquet work”
  - BEB publication „Assessing and preparation of substrates”

## Protection of the Workplace and the Environment:

Solvent-free. Requires no special protection or precautions in general use. Use of barrier cream and ventilation of the work area are recommended. Keep out of the reach of children. Do not eat, drink or smoke during the installation. After contact with eyes or skin, wash immediately with plenty of water. Rinse tools with water and soap immediately after use.

EMICODE EC 1 PLUS – very low emission. Within the scope of current knowledge, gives off no emissions of formaldehyde, hazardous materials or volatile organic compounds (VOC). When fully dried, has a neutral odour and presents no physiological or ecological risk. Basic prerequisites for best possible indoor air quality following floor covering work are conformity to standards of the working conditions, as well as thoroughly dry substrate, primer and smoothing compound.

Hotline for allergy information +49 (0)731 4097-0.

## Disposal:

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty, scraped and drip-free plastic containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction Waste.

