

Mortar Additive

# UZIN PE 520



Additive and wet primer for cement levelling compounds

**Description:**

Special dispersion as additive for UZIN cement levelling compounds when using on mechanically or thermally deformable substrates.

The additive is required when applying levelling compounds on:

- ▶ bituminous substrates, e.g. mastic asphalt, pitchmastic, rolled asphalt, fine concrete asphalt, etc.

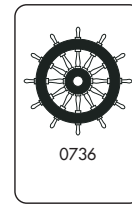
and is recommended for use on:

- ▶ existing surfaces with well-bonded adhesive and smoothing compound residues

**Other uses:**

- ▶ improving and plasticizing bonding slurries made from cement and sand, repair mortars and renders
- ▶ diluted with 2 – 3 parts water as a wet-in-wet primer for absorbent, cement-based substrates prior to applying UZIN cement levelling compounds and mortars

Suitable for use on warm water underfloor heating systems.



Component of the System "Primary deck covering"

**Product Properties/Benefits:**

Synthetic resin dispersion. Is added to the mixing water for cement levelling compounds and mortars. Makes the fresh mortar more plastic with better adhesive and wetting power; after setting, gives greater reliability against cracking and spalling; improves the bond strength and flexibility. When diluted with water, also used as a wet primer prior to applying levelling compounds to bind dust, reduce surface absorbency and increase bond strength, etc.

Binding agent: Modified polyacrylate copolymers.

- ▶ Plasticizer for levelling compounds
- ▶ Diluted with water as a wet primer
- ▶ Increases flexibility
- ▶ Increases bond strength
- ▶ Reduces stress- and shrinkage- cracks
- ▶ Neutral odour
- ▶ Solvent-free

**Technical Data:**

Packaging:	plastic canister
Packsize:	10 kg
Shelf life:	min. 12 months
Colour wet / dry:	white / transparent
Consumption as an additive:	1.5 kg per 25 kg sack
Consumption as a primer (diluted; mixed 1 : 4):	30 – 50 g / m <sup>2</sup>



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## Substrate Preparation:

As a primer: The substrate must be sound, dry, free from cracks, clean and free from materials that would impair adhesion.

Cement and calcium sulphate screeds must be abraded and vacuumed as a chargeable, secondary treatment.

Test the substrate in accordance with applicable standards and notices and report any deficiencies. Brush, abrade or shot-blast to remove any soft or weakly bonded areas. Thoroughly vacuum off the surface.

As an additive: See the Product Data Sheet for the UZIN cement levelling compound to be used.

## Application:

As a primer on absorbent substrates: According to surface absorbency, dilute with 2 to 3 parts by weight or volume. Then apply a full and even coat onto the surface using a foam or velour roller. Levelling compounds can be laid wet-in-wet without waiting for primer to dry.

As an additive: For each UZIN levelling compound, a specific mixing water quantity is prescribed (see the Product Data Sheets / packaging label). As a rule, 6 to 8 litres of water per 25 kg sack of powder is required. For plasticizing, part of this water is replaced with UZIN PE 520 as follows:

Instead of 6 litres of water:

5 litres of water and 1.5 kg UZIN PE 520

Instead of 7 litres of water:

6 litres of water and 1.5 kg UZIN PE 520

Instead of 8 litres of water:

7 litres of water and 1.5 kg UZIN PE 520

1. Thoroughly mix the reduced cold water quantity and the UZIN PE 520 in a clean mixing container.
2. Sprinkle in the contents of the sack (25 kg) whilst stirring vigorously and blend to a lump-free mix. Use a suitable drill with UZIN Levelling Compound Mixer.
3. The consistency of the levelling compound with additive is somewhat thicker and stickier than without. As required, make a little thinner by adding a small amount of water. Under no circumstances mix too thin.
4. Apply the levelling compound with additive as detailed in the Product Data Sheets for the product.
5. Clean tools with water immediately after use.

## Consumption:

as a primer diluted 1:2	approx. 50 g/m <sup>2</sup>
as a primer diluted 1:3	approx. 30 g/m <sup>2</sup>
as an additive per 1 mm levelling compound thickness	approx. 80 g/m <sup>2</sup>

## Important Notes:

- ▶ Shelf-life minimum 12 months in original packaging when stored in relatively cool conditions. Protect from frost. Tightly re-seal opened containers and use as quickly as possible.
- ▶ Optimum working conditions are 15 – 25 °C/59 – 77 °F, floor temperature above 15 °C/59 °F, relative humidity below 75 %. Low temperatures and high humidity delay setting, drying and readiness for covering. High temperatures and low humidity shorten the working time for levelling compounds; therefore, in summer, use the coldest possible water.
- ▶ UZIN levelling compounds are fully, qualitatively prescribed for their relevant applications and usually require no additional improvement. It is required or recommended if applying levelling compound onto substrates with less than calculable deformation property, e.g. on mastic asphalt, old substrates etc.
- ▶ UZIN PE 520 is a component of the System "Primary deck covering", consisting of UZIN NC 170, UZIN PE 520, UZIN PE 460 and UZIN Quartz Sand 0.8. This system is certificated by the "See-Berufsgenossenschaft" Hamburg to meet the requirements of Marine Equipment module B and module D. Certificates are available on request. The admitted thickness is 8 mm. USCG-No. module B 164.106/EC0736/113.069.
- ▶ Refer to the Product Data Sheet for the UZIN levelling compound to be used and the applicable standards and notices listed therein, e.g. DIN 18 365 "Working with floor coverings", BEB publication "Assessment and preparation of surfaces".
- ▶ Example for a plasticised mortar: a multipurpose repair mortar is obtained by combining 4 parts by weight Portland cement and 2 to 3 parts by weight 0 – 3 mm sand, blended to the desired consistency with a mixture of 1 part by weight UZIN PE 520 and approx. 3 parts by weight of water.

## Protection of the Workplace and the Environment:

Solvent-free. Non flammable. Requires no special protection or precautions in general use. Avoid prolonged contact with skin or contact with eyes.

## Disposal:

Where possible, collect all product waste 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.



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