How to seal against ground moisture and increased residual moisture in cementitious substrates?

Renoplan System

The solution:

With UZIN PE 480.

"We have developed UZIN PE 480 for substrates not able to dry to the standard-conforming permissible residual moisture but still need to be quickly ready for covering."

Ernst Wohlleb, Head of Technical Services UZIN

Renoplan System

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Long waiting times through moist substrates and the associated high drying costs present a problem especially with tight deadlines. The 2-component epoxy moisture barrier UZIN PE 480 is ideally suited not only for priming and reinforcing but also especially for sealing cementitious substrates without limitation to an max. residual moisture value.

The application safely seals very high moisture contents in concrete floors or cementitious screeds. Combined with the enormously quick super-fast primer UZIN PE 280, a surface is created which presents an optimal bond to the subsequent levelling compound layer.

1

Punch the plastic closure and floor of the cover insert of the combination pack several times with a strong metal punch (or screw driver). Do not forget to wear protective clothing!

2

Allow hardener liquid to run completely into the resin container.

3

Mix both components with a drill and stirring attachment in the container without streaks. Now pour this mix into a clean, empty container and mix once more.

4

Apply Uzin PE 480 immediately and uniformly with a B2 notch size (min. 500 g/m²). Now roll over again with the UZIN nylon fibre roller. The UZIN Epoxy Accelerator can be added to UZIN PE 480 to accelerate hardening and thus the continuation of work. Please observe the corresponding product data sheets.

5

Apply the Super-Fast Primer UZIN PE 280 to create a rough surface. Apply the primer with a short-nap lamb skin roller or, alternatively, with UZIN nylon fibre roller uniformly, thin and over the whole substrate. Because of the quick drying of UZIN PE 280, the surface can be levelled already after approx. 60 minutes*.

6

Mix the levelling compound UZIN NC 170 LevelStar with clear cold water. Use a powerful electrical hand mixer, e.g. the agitator Power X 1300 from WOLFF with the UZIN levelling compound stirrer, for mixing.

7

Apply the levelling compound UZIN NC 170 LevelStar to the prepared surface. The raking method (notch size R2) can be used as an alternative to levelling. The screed rake from the UZIN product range is recommended for this purpose.

* At 20 °C and 65 % relative humidity.

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