

Powder Adhesive for Wood Flooring

# UZIN MK 55 flex

Powder adhesive for wood flooring – flexible when set

**UZIN ÖkoLine®:** A system of tested and approved installation materials based on the principles of neutral odour and clean indoor air (see "Protection of the Workplace and the Environment").

## Description:

Powder adhesive, flexible /plastic when set, for strong and resilient adhesion of wood flooring.

Recommended for:

- ▶ mosaic wood flooring
- ▶ stab wood flooring 19 – 22 mm
- ▶ on-edge wood flooring
- ▶ multi-ply and pre-finished wood flooring

For use on subfloors that are suitable for wood flooring and are perfectly sound (excluding mastic asphalt) such as, e.g. cement- and calcium sulphate-screeds and flow-screeds, chipboard V 100 and all existing substrates that have been professionally prepared and levelled.

## Product Properties/Benefits:

Powder adhesive for mixing with water. As with dispersion wood flooring adhesives, the water in the mixed adhesive causes the desired initial wetting and slight swelling of the wood flooring. This is especially advantageous in the moisture layer underneath the wood flooring. Due to the rapid hydraulic setting, a large proportion of the water is then crystallised and the drying is accelerated. Any further swelling effect on the wood flooring timber is thereby significantly reduced. This new adhesive for wood flooring combines the recognised advantages of other types of wood flooring adhesive, without any of their disadvantages.



**Composition:** Special cements, plasticizer-free special polymers, mineral fillers and additives.

- ▶ Space-saving and easy to store
- ▶ Not frost-sensitive
- ▶ Easy to mix and low consumption
- ▶ Rapid setting
- ▶ Very fast installation
- ▶ Flexible /plastic when set
- ▶ Solvent-free
- ▶ Low chromate content
- ▶ EMICODE EC 1 R / Very low emission

## Technical Data:

Packaging:	paper bag
Packsize:	4 kg
Shelf life:	min. 6 months
Colour:	light beige
Mixing ratio:	1.8 – 2.0 litres water to 4 kg powder
Consumption:	500 – 600 g powder per m <sup>2</sup>
Working temperature:	15 °C to 25 °C / 59 °F to 77 °F
Open time:	none
Working time:	approx. 45 minutes*
Installation time:	approx. 20 minutes*
Load-bearing:	after approx. 24 hours*
Ready for sanding /sealing:	after approx. 72 hours*

\*At 23 °C / 73 °F and 50 % relative humidity.

## Subfloor Preparation:

The subfloor must be adequately level, sound, free from cracks, dry, clean and free from materials that would impair adhesion.

Cement- and calcium sulphate-screeds, especially flow-screeds must be abraded and vacuumed as a special and chargeable service, either as a finishing process by the screed installer or as a chargeable special treatments by the wood flooring installer. Test the subfloor in accordance with applicable standards and notices and report any deficiencies. For wood flooring work, particularly careful testing of the subfloor is recommended.

Brush, abrade, grind or shot-blast to remove any soft or weak surface sections. Thoroughly vacuum off any loose material and dust.

On absorbent substrates on which the wood flooring will be bonded directly with UZIN MK 55 flex, prime with Dispersion Wood Flooring Primer UZIN PE 380. **Caution!** UZIN PE 380 cannot be overlevelled with levelling compounds.

Prime uneven, absorbent surfaces with Universal Primer UZIN PE 360 and apply Wood Flooring Levelling Compound UZIN NC 174 to min. 3 mm thickness. Allow primer and smoothing compound to dry thoroughly.

Refer to the Product Data Sheets for the products used.

## Application:

1. Put 1.8 to 2.0 litres of cold, clean water into a clean container. Sprinkle in the bag contents (4 kg) whilst stirring vigorously and mix until lump-free. Do not mix too thin. Mixed adhesive can be used for approx. 45 minutes.
2. Apply the adhesive evenly onto the subfloor using a suitable notched trowel. Only apply as much adhesive as can be covered within 20 minutes.
3. Lay in the wood flooring and knock well down. Ensure the best possible adhesive transfer to the underside of the wood flooring.
4. Using wedges, leave a gap of 10 – 15 mm between the wood flooring and the wall. Remove the wedges immediately after installation.
5. Use water to clean tools and to remove adhesive residues.

## Consumption:

Type of wood flooring	Trowel Notch	Powder consumption
Multi-ply wood flooring, Mosaic wood flooring, On-edge wood flooring, Stab wood flooring	B 11	500 – 600 g/m <sup>2</sup>

## Additional Adhesive Recommendations:

### UZIN MK 80 S:

Solvent-free, water-based dispersion adhesives for mosaics and on-edge wood flooring.

### UZIN MK 92 S:

Solvent- and water-free, hard-elastic, 2-component polyurethane adhesive for all types of wood flooring and laminate flooring onto all substrates suitable for wood flooring, including mastic asphalt.

### UZIN MK 100:

Solvent- and water-free, flexible hybrid adhesive. For mosaic-, stab-, on-edge-, multi-ply wood flooring, exotic timbers, smoked oak and wood blocks up to 30 mm. Especially suitable for moisture-sensitive timbers and formats.

Please refer to the Product Data Sheets.

## Important Notes:

- ▶ Shelf life minimum 6 months in original packaging when stored in dry conditions.
- ▶ Optimum conditions are 18 – 25 °C/64 – 77 °F and relative humidity < 75%. Low temperatures and high humidity lengthen, high temperatures and low humidity shorten the working-, setting- and drying-times.
- ▶ By maintaining wood- and air-humidity in accordance with standards, and with adequate acclimatisation of the wood flooring, sanding and sealing can be carried out after only 24 hours.
- ▶ **Caution:** Installation of wood flooring with moisture content not conforming to standards can lead to damage due to subsequent variations in climatic conditions. Excessively dry wood flooring is prone to swelling damage; excessively damp wood flooring is prone to joint gapping.
- ▶ The following standards and notices are applicable and especially recommended:
  - DIN 18 356 "Working with wood flooring"
  - publication by the Adhesives Industry Association „Bonded-wood flooring"
  - publication by the ZDB "Resilient and textile floor coverings and wood flooring on heated floor constructions"
  - TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation" 06/2004
  - BEB publication "Assessment and preparation of substrates" 02/2002.

## Protection of the Workplace and the Environment:

Contains cement low in chromate acc. Directive 2003/53/EC. Cement reacts with moisture to form strong alkaline, therefore avoid contact with skin and eyes; if necessary, rinse immediately with water. In the event of skin irritation or contact with eyes, consult a doctor. Wear protective gloves. When mixing, wear a dust-mask.

EMICODE EC 1 – very low emission in accordance with GEV. Tested and classified in accordance with GEV regulations. According to current knowledge, gives off no emissions of formaldehyde, hazardous materials or other volatile, organic compounds (VOC). After hardening and drying, is ecologically and physiologically harmless.

## Disposal:

Do not allow into drains, water courses or land-fill. Empty, dust-free paper packaging is recyclable. Collect product residues, mix with water, allow to harden, and dispose as Construction Waste.