PRODUCT DATA SHEET

Stress-Relieving Board

UZIN Multimoll Top 4

Stress-distributing underlay for bonded wood flooring and laminates

Installation under wood flooring

Description:

Synthetic-resin-bonded, polyester fibre, compressed board of 4 mm thickness as a stress-buffering insulation layer under bonded wood flooring and multi-ply wood flooring. Fully bonded and serves as new substrate for installation of the flooring (see "Important Notes").

Suitable for use on all load-bearing, interior substrates, especially on technically or physically adverse or dubious surfaces, e.g. substrates that are not completely free from deflection or are cracked, existing surfaces with adhesive residues.

Suitable for / on:

- cement- and calcium sulphate-screeds
- concrete
- stone, ceramics
- wooden substrates, chipboards
- dry construction materials
- domestic and commercial locations
- renovation and refurbishment work
- installation under textile and resilient coverings, obtain technical advice

Regarding suitability for warm water underfloor heating systems, see "Important Notes". Not suitable for exterior use.

Product Properties / Benefits:

Multipurpose use: permits pressure-resistant, bonded flooring, disperses shear- and pull- forces between flooring and substrate. Ideal for incorporating reliability, underfoot- and ambient- comfort.

- Increases underfoot- and ambient- comfort
- Stress-relieving
- Overall thickness 6 – 7 mm
- Easy to cut and install
- Moisture-resistant
- Heat-resistant and rot-proof
- Recyclable

Technical Data:

Material:	polyester fibre compressed board
Format:	60 x 100 cm = 0.6 m²
Thickness:	approx. 4 mm
Packaging unit:	carton with 15 boards = 9 m² pallet with 200 board = 120 m²
Weight by area:	approx. 3.8 kg/m²
Colour:	beige-white
Flammability acc. to DIN 4102:	B2
Tensile strength acc. to DIN 53 457:	approx. 6.7 N/mm²
Coefficient of elasticity:	approx. 213 N/mm²
MVP acc. to DIN 52 615:*	approx. 423 g / m²d
TTR acc. to DIN 52 612:**	approx. 0.04 m² K / W
Thermal expansion coefficient:	approx. 2.7 x 10^{-5} K^{-1}
Moisture content:	max. 0.1 % by weight
Moisture absorption (after immersion):	max. 45 % by weight
Emissions:	none

*MVP = Moisture Vapour Permeability without covering.
**TTR = Thermal Transfer Resistivity without covering.
Other technical information on request.

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UZIN Multimoll Top 4

Substrate Preparation:

The substrate must be sound, level, dry, clean and free from materials that would impair the adhesion of the UZIN installation materials used. Flow screeds must be abraded and vacuumed. Test the substrate in accordance with applicable standards and notices and report any deficiencies.

Mechanically remove any weakly bonded or soft surface areas. Make a strong repair of any cracks in floating screeds. Sound hairline cracks can be covered. Using suitable mechanical methods, clean, vacuum and prime the subfloor. Match the primer with the appropriate wood flooring adhesive. If necessary, prime and smooth uneven substrates. For the particular substrate, use suitable primers and levelling compounds from the UZIN Product Guide. Refer to the Product Data Sheets for the products used.

Application:

1. Lay the boards in bonded pattern and cut in using a trimming knife, jig-saw (fine blade for wood) or circular saw (Ø 150 mm, 48-tooth hard metal or 60-tooth chromed). Offset the joints in adjacent rows. At walls, leave a gap of approx. 5 mm on mineral substrates and approx. 15 mm on wooden substrates.
2. Lift the boards individually from the area and, with trowel notch B 11, apply wood flooring adhesive, UZIN MK 92 S, UZIN MK 95, UZIN MK 100, UZIN MK 55 flex or UZIN MK 73 onto the substrate (see "Adhesives / Consumption").
3. Lay the board immediately into the fresh adhesive bed and press well down. Do not exceed the working time for the adhesive and ensure good transfer to the underside of the boards.
4. According to adhesive type, the installed boards are ready for installation of the wood flooring after 12 – 24 hours.
5. In the system, bond the wood flooring with the same adhesive as bonded UZIN Multimoll Top 4. Either UZIN MK 92 S, UZIN MK 95, UZIN MK 100, UZIN MK 55 flex or UZIN MK 73. Notch size B 11.

Adhesives / Consumption:

Suitable for bonding the UZIN Multimoll Top 4:

UZIN MK 92 S: 2-Component PU Wood Flooring Adhesive – for UZIN Multimoll Top 4 and for wood flooring use each with trowel notch B 11, approx. 1 – 1.2 kg/m².

UZIN MK 95: 1-Component PU Wood Flooring Adhesive – for UZIN Multimoll Top 4 and for wood flooring use each with trowel notch B 11, approx. 1 – 1.2 kg/m².

UZIN MK 100: MSP Wood Flooring Adhesive – for UZIN Multimoll Top 4 and for wood flooring use each with trowel notch B 11, approx. 1 – 1.2 kg/m².

UZIN MK 55 flex: Powder Adhesive for Wood Flooring – for UZIN Multimoll Top 4 and for wood flooring use each with trowel notch B 11, approx. 600 g/m².

UZIN MK 73: Wood Flooring Adhesive – for UZIN Multimoll Top 4 and for wood flooring use each with trowel notch B 11, approx. 1 – 1.2 kg/m².

Important Notes:

- Shelf life minimum 2 years when boards are stored flat in dry conditions.
- For a full, straight cut, it is preferable to use a trapezoid blade, a jig-saw or circular saw – for notches, use a jig-saw.
- Readiness for sanding and sealing of wood flooring laid on UZIN Multimoll Top 4 is according to the details given in the Product Data Sheet for the UZIN wood flooring adhesive used.
- On underfloor heating systems, the total Thermal Transfer Resistivity (TTR) of the flooring construction should not exceed 0.15 m²K/W. The TTR of UZIN Multimoll Top 4 is approx. 0.04, that of the wood flooring is 0.06 – 0.1.
- UZIN Multimoll Top 4 is not suitable for use in exterior or wet-area locations.
- Refer to the Product Data Sheets for the UZIN installation products used.
- The following standards and notices are applicable and especially recommended:
  - DIN 18 356 "Working with wood flooring"
  - publication of the Adhesives Industry Association e.V. "Bonding of 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:

No special measures are required.

Disposal:

All product residues are treated as normal construction waste.

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PRODUCT DATA SHEET

Stress-Relieving Board

UZIN Multimoll Top 4

Stress-relieving underlay between existing interior substrates and new ceramic tiling

Installation under ceramic tiling

Description:

Stress-relieving underlay for ceramic tiling in interior locations. Especially suitable for use on substrates that are cracked but without levels variation, such as on concrete, screeds, plaster, ceramics as well as on wooden floorboards and stairs.

Suitable on:

- cement and calcium sulphate screeds
- concrete
- gas concrete
- brickwork
- cement-, lime-cement- and plaster- renders
- chipboard and wooden floorboards
- dry construction boards
- existing tiling and natural stone
- also suitable for overlaid surface heating elements/electrical surface heating systems

Suitable for use in domestic and commercial locations and in new-build, but especially in renovation and refurbishment work.

Regarding suitability for warm water underfloor heating systems, see "Important Notes".

Product Properties / Benefits:

UZIN Multimoll Top 4 is a synthetic-resin-bonded, compressed polyester fibre board for producing a pressure-resistant, bonded covering. Disperses existing shear- and pull- forces between substrate and covering. Ideal for incorporating reliability, underfoot- and ambient- comfort.

- Physical separation of new ceramic tiling from the substrate
- Disperses stresses
- Overall thickness 6 – 7 mm
- Easy to cut and install
- Moisture-resistant
- Heat-resistant and rot-proof
- Recyclable

Technical Data:

Material:	polyester fibre compressed board
Format:	60 x 100 cm = 0.6 m²
Thickness:	approx. 4 mm
Packaging unit:	carton with 15 boards = 9 m² pallet with 200 board = 120 m²
Weight by area:	approx. 3.8 kg/m²
Colour:	beige-white
Flammability acc. to DIN 4102:	B2
Tensile strength acc. to DIN 53 457:	approx. 6.7 N/mm²
Coefficient of elasticity:	approx. 213 N/mm²
MVP acc. to DIN 52 615:*	approx. 423 g /m²d
TTR acc. to DIN 52 612:**	approx. 0.04 m² K/W
Moisture content:	max. 0.1 % by weight
Moisture absorption (after immersion):	max. 45 % by weight
Emissions:	none

*MVP = Moisture Vapour Permeability without covering.
**TTR = Thermal Transfer Resistivity without covering.
Other technical information on request.

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UZIN Multimoll Top 4

Substrate Preparation:

The substrate must be load-bearing, level, resistant to tensile forces, clean and free from materials that would impair adhesion of the UZIN installation materials used. Flow-screeds must be abraded and vacuumed. Test the substrate in accordance with applicable standards and notices and report any deficiencies. Mechanically remove any weak or soft surface areas. Prepare surfaces according to type and condition with suitable UZIN primers and levelling compounds. Allow primers to dry thoroughly. Refer to the Product Data Sheets.

Repair cracks in floating screeds. Other cracks up to 1 mm can be bridged, so long as there is no level variation, including under loading.

Application:

1. Lay the boards in bonded pattern and cut in using a jig-saw (fine blade for wood) or circular saw (Ø 150 mm, 48-tooth hard metal or 60-tooth chromed). Offset the joints in adjacent rows. At walls, leave a gap of approx. 5 mm on mineral substrates.
2. Lift the boards individually from the area and, with a suitable trowel notch, apply tiling adhesive codex Power Flex Turbo. On level surfaces, use notch C1 (approx. 1.5 kg/m²), on very rough surfaces use notch C2 (approx. 2.0 kg/m²). Only apply as much adhesive as can be tiled within 15 minutes.
3. Lay the board immediately into the fresh adhesive bed and press well down.
4. The installed boards will accept foot traffic after 2 hours and are ready for installation of the tiling after 12 hours.
5. Fix tiles with codex Power Flex or codex Power Flex Turbo. Use a trowel notch size according to the tile format.
6. After 24 hours, the tiles can be grouted with codex grout mortar.

Important Notes:

- Shelf life minimum 2 years when boards are stored flat in dry conditions.
- For a full, straight cut, it is preferable to use a jig-saw or circular saw – for notches, use a jig-saw.
- On underfloor heating systems, the total Thermal Transfer Resistivity (TTR) of the flooring construction should not exceed 0.15 m²K/W. UZIN Multimoll Top 4, with a TTR of 0.04 is, therefore, with consideration for the two adhesive layers, only suitable if the TTR of the tiling does not exceed approx. 0.05. UZIN Multimoll Top 4 is highly suitable for overlaid surface heating systems of minimal thickness, e.g. Velta Klimaboden or electrical surface heating systems.
- Floorboards must be soundly bonded to the sub-construction and free from vibration. Loose, creaking or springing boards must be screwed down and, if necessary, overlaid with chipboard as a pressure-resistant and load-distributing surface finish.
- UZIN Multimoll Top 4 is not suitable for use in exterior or wet-area locations.
- Refer to the Product Data Sheets for the UZIN and codex installation products used.
- In addition to all relevant standards, regulations and notices, the following are especially recommended:
  – DIN 18 352 "Working with large and small format tiles"
  – DIN 18 157 "Ceramic tiling work using the thin-bed method"
  – ZDB publication:
    • Large and small format ceramic tiling, natural and artificial stone on heated floor constructions
    • Large and small format floor tiling outside of buildings
    • Movement joints in large and small format tile coverings and claddings
  – BEB publication: "Assessment and preparation of substrates"

Protection of the Workplace and the Environment:

No special measures are required.

Disposal:

All product residues are treated as normal construction waste.

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