PRODUCT DATA SHEET

Insulation and Renovation Board

UZIN Multimoll® Top 9

Stress-relieving underlay with acoustic and thermal insulation properties for bonded parquet and laminate flooring

Installation under parquet flooring

Description:

Synthetic-resin-bonded, polyester fibre, compressed board of 9 mm thickness as a stress-buffering insulation layer under bonded- and multi-ply- parquet and laminate flooring. Fully bonded and serves as the substrate surface for installation of the flooring (see "Important Notes").

Suitable for use on all load-bearing, interior substrates, e.g. screeds, concrete, stone, ceramics and wooden floors, especially on technically or physically adverse or dubious surfaces, e.g. substrates that are not completely free from deflection or are cracked, badly insulated substrates and especially on existing surfaces with adhesive residues, calcium sulphate screeds and anhydrite flow-screeds, etc.

Permits the use of powder-, dispersion-, polyurethane- and hybrid- parquet adhesives and, therefore, meets the requirements of appropriate workplace protection when installing parquet (TRGS 610).

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". 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
- Overall thickness 11 – 12 mm
- Stress-relieving
- 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. 9 mm
Packaging unit:	carton with 10 boards = 6 m² pallet with 100 board = 60 m²
Weight by area:	approx. 7.8 kg / m²
Colour:	beige-white
Flammability acc. to DIN 4102:	B2
Tensile strength acc. to DIN 53 457:	approx. 3.1 N / mm²
Coefficient of elasticity:	approx. 213 N / mm²
Acoustic improvement value:	approx. 10 dB with tiling
MVP acc. to DIN 52 615:*	approx. 218 g / m²d
TTR acc. to DIN 52 612:**	approx. 0.09 m² K / W
Thermal expansion coefficient:	approx. 2.5 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 9

Substrate Preparation:

The substrate must be sound, level, dry, clean and free from materials that would impair adhesion. Test the substrate in accordance with applicable standards and notices and report any deficiencies.

Mechanically clean, vacuum, prime and prepare uneven surfaces with Parquet Levelling Compound, UZIN NC 174. Recommended UZIN primers:

Substrate / Purpose	UZIN Primer	Type
Cement screed, concrete, terrazzo	UZIN PE 600	D
Anhydrite- / calcium sulphate- screed	UZIN PE 360	D
Magnesia- / stonewood- screed	UZIN PE 260	D
Mastic asphalt, ungritted	UZIN PE 260	D
Water-resistant adhesive residues	UZIN PE 260	D
Water-sensitive adhesive residues	UZIN PE 460	RE
Damp cement screed, concrete	UZIN PE 460	RE
Case-hardening soft surfaces	UZIN PE 460	RE

D = Dispersion, RE = Reaction Epoxy-Resin

Thoroughly broadcast 2-component Epoxy Sealer-Primer UZIN PE 460 with UZIN Fine Sand 0.8. Allow primers and levelling compounds to dry thoroughly.

Mechanically clean, vacuum and prime adequately level surfaces using appropriate methods.

Application:

1. Dry 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 and approx. 15 mm on wooden substrates.
2. Lift the boards individually from the centre of the area and, with a suitable trowel notch, apply parquet adhesive, e.g. UZIN MK 92 S, UZIN MK 80 S or flexible adhesive mortar UZIN Power Flex Turbo, onto the substrate (see "Adhesives / Consumption").
3. Lay the board immediately into the fresh adhesive 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 will accept foot traffic after 2 – 12 hours and are ready for installation of the parquet after 24 – 48 hours.

Adhesives / Consumption:

Suitable for bonding the UZIN Multimoll® Top 9:

UZIN MK 92 S: 2-component PU parquet adhesive – trowel notch B3 (approx. 1 kg / m²) on level substrates or trowel notch 23 / 48 (approx. 1.2 kg / m²) on rough substrates (surfaces accept foot traffic after approx. 12 hours, ready for parquet after 24 hours).

UZIN MK 80 S: dispersion parquet adhesive – trowel notch B3 (approx. 700 g / m²) on adequately level and prepared substrates (surfaces accept foot traffic and are ready for parquet after approx. 24 hours).

UZIN Power Flex Turbo: rapid setting cement-based adhesive mortar – square-notch trowel C1 (approx. 1.5 kg / m²) on level substrates and square-notch trowel C2 (approx. 3 kg / m²) on rough substrates (surfaces accept foot traffic after approx. 2 hours, ready for parquet after 24 hours). UZIN Power Flex Turbo can be used in conjunction with floor covering work.

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.
- Readiness for sanding and sealing of parquet laid on UZIN Multimoll® Top 9 is according to the details given in the Product data Sheet for the UZIN parquet adhesive used.
- On underfloor heating systems, the total Thermal Transfer Resistivity (TTR) of the flooring construction should not exceed 0.17 m²K / W. UZIN Multimoll® Top 9 with a TTR of approx. 0.09 is, therefore, not suitable to install over heating systems. However, UZIN Multimoll® Top 9 is highly suitable for overlaid surface heating systems of minimal thickness, e.g. Velta Klimaboden or electrical surface heating systems.
- UZIN Multimoll® Top 9 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 parquet" / publication of the Adhesives Industry Association e. V. "Bonding of parquet" / "Assessment and preparation of surfaces. Installation of resilient and textile floor coverings, multi-ply materials (laminates), parquet and wood-blocks. Heated and unheated floor constructions. (BEB)" / Technical Information 2 / 1990 from the Federal Association for Screeds and Coverings (BEB) "Assessment and preparation of surfaces of anhydrite flow-screeds".

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

Insulation and Renovation Board

UZIN Multimoll® Top 9

Stress-relieving underlay with acoustic and thermal insulation properties for bonded parquet and laminate flooring

Installation under ceramic tiling

Description:

Stress-relieving underlay for stress-free installation of ceramic tiling and natural stone on interior walls and floors. Especially suitable for renovation of old buildings when used on technically or physically adverse or dubious surfaces in direct contact with the ground or external air.

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 9 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, extra acoustic insulation as well as

underfoot- and ambient- comfort.

- Increases underfoot comfort with ceramic tiling
- Overall thickness 11 – 12 mm
- Easy to cut and install
- Disperses stresses
- Moisture-resistant
- Heat-resistant and rot-proof
- Recyclable
- Official test certificate

Technical Data:

Material:	Polyester fibre compressed board
Format:	60 x 100 cm = 0.6 m²
Thickness:	approx. 9 mm
Packaging unit:	carton with 10 boards = 6 m² pallet with 100 board = 60 m²
Weight by area:	approx. 7.8 kg / m²
Colour:	beige-white
Flammability acc. to DIN 4102:	B2
Tensile strength acc. to DIN 53 457:	approx. 3.1 N / mm²
Coefficient of elasticity:	approx. 213 N / mm²
Acoustic improvement value:	approx. 10 dB with tiling
MVP acc. to DIN 52 615:*	approx. 218 g / m²d
TTR acc. to DIN 52 612:**	approx. 0.09 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 9

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. Dry 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 and approx. 15 mm on wooden substrates.
2. Lift the boards individually from the centre of the area and, with a suitable trowel notch, apply tiling adhesive UZIN Power Flex Turbo. On level surfaces, use notch C1 (approx. 1.5 kg / m^2), on very rough surfaces use notch C2 (approx. 2.0 kg / m^2). Only apply as much adhesive as can be tiled within 15 minutes.
3. Lay the board immediately into the fresh adhesive 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 UZIN Power Flex or UZIN Power Flex. Use a trowel notch size according to the tile format.
6. After 24 hours, the tiles can be grouted with UZIN 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 0.17 m^2K/W. UZIN Multimoll® Top 9, with a TTR of 0.09 is, therefore, not suitable to install over heating systems. However, UZIN Multimoll® Top 9 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 9 is not suitable for use in exterior or wet-area locations.
- Refer to the Product Data Sheets for the UZIN 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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