

Flame-retardant Insulating Underlay

UZIN RR 189 PLUS FR

Flame-retardant insulating underlay which can be stuck for textile and resilient floor coverings

MAIN APPLICATION FIELD:

- ▶ footstep sound insulation
- ▶ increase of walking and living comfort

SUITABLE ON / FOR:

- ▶ all level, absorbent and non absorbent substrates, as well as levelled substrates
- ▶ new P4 - P7 chipboard or OSB 2 - OSB 4 boards, screwed
- ▶ existing ceramic and natural stone coverings, terrazzo or similar
- ▶ new, well-grinded mastic asphalt screeds
- ▶ precast screeds, screed boards
- ▶ prior to installation of textile floor coverings
- ▶ prior to installation of impact-absorbing wall coverings in sports facilities
- ▶ prior to installation of wood flooring with tongue and groove (2mm, 3 mm UZIN RR 189 PPLUS FR)
- ▶ prior to installation of PVC / CV floor coverings with EN 685 33-43 (K5)
- ▶ suitable for residential and commercial locations
- ▶ warm water underfloor heating systems (see "Important Notes")
- ▶ exposure to castor wheels in accordance with DIN EN 12 529 (see "Important Notes")
- ▶ wet shampooing and spray extraction cleaning according to RAL 991 A2



PRODUCT BENEFITS/FEATURES:

UZIN RR 189 PLUS FR is a resilient insulating underlay made from cork-foam granulate, with flame-retardant properties. For the subsequent installation of floor and wall coverings, as well as tongue and groove wooden flooring. Specially designed for commercial locations with higher demands on fire protection. Available in different thicknesses to improve underfoot comfort and sound insulation. Reduces the sound transmission and the early floor covering abrasion in stair areas. For interior use.

- ▶ easy to cut and install
- ▶ good resilience
- ▶ resistant against water and cleaning agents
- ▶ footstep sound and thermal insulation
- ▶ increases underfoot comfort
- ▶ flame-retarding properties

TECHNICAL DATA:

Packaging	rolls
Sizes	1 m x 50 m (2 mm) = 50 m ²
	1 m x 40 m (3 mm) = 40 m ²
	1 m x 30 m (4 mm) = 30 m ²
	1 m x 20 m (6 mm) = 20 m ²
Shelf life	min. 60 months
Color	grey / brown
Roll weight	see table
Thickness	approx. 2 mm, 3 mm, 4 mm, 6 mm
Minimum application temperature	15 °C at ground level
Raumgewicht	approx. 360 kg/m ³
Fire reaction	B _{fl} -s1*

*according to DIN EN 13 501-1



EXTENDED APPLICATIONS:

- ▶ decoupling membrane
- ▶ thermal insulation

MATERIAL TABLE:

Thickness:	[mm]	2	3	4	6
Roll length:	[m]	50	40	30	20
Weight:	[kg/m ²]	0.83	1.4	1.9	2.50
Acoustic value*:	[dB]	20	19	19	21
Thermal resistance (R)**:	[m ² K/W]	0.03	0.05	0.06	0.09
Thermal conductance (U):	[W/m ² K]	33.3	20.0	16.7	10.0

*impact sound improvement/underlay laid loose, without covering acc. to DIN EN ISO 16251-1. See "Important notes".

**heat transfer resistance without covering acc. to DIN 52 612

SUBSTRATE PREPARATION:

The substrate must be sound, load-bearing, dry, free from cracks and free from materials (dirt, oil, grease) that would impair adhesion. Test the substrate in accordance with applicable standard or notices and report any deficiencies. Properly vacuum, prime and level existing substrates. Use a suitable primer and levelling compound from the UZIN Product Guide according to the type and condition of the substrate. Allow the primer and levelling compound to dry completely.

The datasheets for other used products have to be observed.

APPLICATION:

Installation of UZIN RR 189 Plus FR:

1. Allow the rolls to come to room temperature for at least 24 hours prior the installation.
2. Lay out the sheet underlay, parallel with the proposed direction of the covering, with joints offset (min. 20 cm). Then cut in (e.g. with a hooked knife blade). Cut roll ends if necessary. For installation of wood flooring, lay the underlay at rightangles to the direction of the wood flooring. Leave a gap of approx. 3 mm to all rising building elements.
3. Install sheets according to normal trade practice for floor covering or wood flooring work. The datasheets for the used adhesives have to be observed.
4. For surface coverings that are prone to showing subfloor marks, e.g. thin textile coverings, smooth over the bonded underlay with UZIN KR 410 and allow to cure completely.

Bonded installaton of the floor covering:

1. Allow the floor covering to come to room temperature. Install the floor covering 24 - 48 hours after the installation of UZIN RR 189 PLUS FR.
2. The seams should be placed parallel and offset (min. 20 cm) to the seams of the underlay. Install sheets according to normal trade practice for floor covering work. The datasheets for the used adhesives have to be observed.

Bonded installation of the wood flooring:

1. Allow the wood flooring to come to room temperature. Install the wood flooring 24 - 48 hours after the installation of UZIN RR 189 PLUS FR.
2. Install the tongue and groove wooden flooring according to normal trade practice for wood flooring work. The datasheets for the used adhesives have to be observed.

Type of Coating	Adhesive	Tooththing	Flash-off time	Consumption
UZIN RR 189 PLUS FR on absorbent substrates	UZIN UZ 57	B1	5 - 15 minutes	350 - 450 g/m ²
UZIN RR 189 PLUS FR on non absorbent substrates	UZIN KE 2000 S	A2	10 - 40 minutes	250 - 320 g/m ²
Textile floor coverings	UZIN UZ 57	B1	5 - 15 minutes	350 - 400 g/m ²
PVC / CV floor coverings	UZIN KE 2000 S	A5 / A2	20 - 40 minutes	180 - 320 g/m ²
Linoleum (see "Important Notes")	UZIN KE 603	B1 / B2	0 - 15 minutes	400 - 450 g/m ²

Waiting time / Consumption: At 20 °C and 65% relative humidity, with tempered adhesive buckets.

ADHESIVE/CONSUMPTION DATA:

Type of Coating	Adhesive	Tooththing	Drying	Consumption
UZIN RR 189 PLUS FR 2 mm, 3 mm	UZIN MK 92 S	B2	24 h.	600 - 800 g/m ²
Wood flooring with tongue and groove	UZIN MK 92 S	B11	24 h.	1000 - 1200 g/m ²
	UZIN MK 250	B11	24 h.	1000 - 1200 g/m ²
	UZIN MK 200	B11	24 h.	1000 - 1200 g/m ²
	UZIN MK 95	B11	24 h.	1000 - 1200 g/m ²

Drying time / Consumption: At 20 °C and 65% relative humidity, with tempered adhesive buckets.

IMPORTANT NOTES:

- ▶ Shelf life minimum 60 months when stored in relatively cool conditions. Store rolls standing so as to avoid pressure marks.
- ▶ Best applied between 18 - 25 °C, substrate temperature above 15 °C and relative humidity below 75%. Low temperatures and high air humidity lengthen the working and drying time. Whilst high temperatures and low air humidity shorten the working and drying time of the adhesives used.
- ▶ Only use floor coverings above the underlay, that are suitable according to the manufacturer. Obtain application advice if in doubt.
- ▶ The joints of the floor covering should be parallel and offset approx. 20 cm to the joints of the underlay.
- ▶ Under wood block RE 10 – 30 mm, use only UZIN RR 189 PLUS FR in 2 mm in combination with UZIN MK 92 S.
- ▶ PVC / CV floor coverings must meet wear classification EN 685 33-43 (K5).
- ▶ Before installing linoleum, the underlay must be strengthened for load distribution with UZIN Reinforcement Webbing and then smoothed with UZIN KR 410. Before installing linoleum, rubber or wood flooring, obtain technical advice.
- ▶ The substructure of wooden floors must be dry to prevent damage due to damp through rotting or mould formation. Adequate ventilation or rear-ventilation must be provided especially when installing impermeable flooring, e.g. by removing the existing expansion strip or by installing special skirting with vent openings.
- ▶ On underfloor heating systems, in accordance with DIN 66 095, floor coverings should not exceed a thermal conductivity factor of 0.15 m²K/W. The thermal conductivity of the combined underlay/covering is the sum of their individual values. Combined with the floor covering, the value of 0.15 m²K/W will be exceeded and, therefore, the efficiency of the underfloor heating may be reduced.
- ▶ The specified acoustic value is an approximate value determined under normal conditions. Due to the individual acoustics in each building and the used materials and compositions in each case the values can differ. To determine the real acoustic value the measurement and its evaluation have to take place at real conditions.
- ▶ The castor wheel and indentation properties of floor coverings can change when used in conjunction with insulating underlays. Contact the flooring manufacturer and obtain technical advice. In general, under office chairs, the use of protective mats is recommended.
- ▶ Despite the high indentation recovery factor of the underlay, some visible, residual indentation in high point-load areas and areas exposed to castor wheels cannot be completely eliminated.
- ▶ Follow the generally acknowledged rules of the trade and technology for the installation of floor covering in respect of the applicable national standards (e.g. END, DIN, OE, SIA, etc.)

SEALS OF QUALITY & ECOLABELS:

- ▶ EMICODE EC 1 PLUS / Very low emission
- ▶ Suitable for sustainable building certifications according to: DGNB, QNG, BNB, BREEAM, LEED

COMPOSITION:

Bonded polyurethane granulate-mix of cork and soft PU foam with flame-retardant additives.

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

The product itself does not require any special labour protection measures. Refer to the notes on protection of the workplace and the environment in the Product Information Sheets for the other installation materials used.

DISPOSAL:

All product residues are treated as normal construction waste.