

wedi Vapor 85/wedi Vapor 85N

Wall application (interiors)

General product description

The wedi Vapor 85/wedi Vapor 85N is made from blue extruded polystyrene hard foam (XPS) which is reinforced with alkali-resistant fibreglass mesh and coated with polymer-modified mortar on both sides, as well as a one-sided vapour barrier.

Areas of application

The wedi Vapor 85/wedi Vapor 85N is both a plate-shaped sealing system and a building board with constructive and vapour resistant properties for use in interior walls. Due to its special properties it is versatile in its applications:

- Base material for laying tiles, slabs and natural stone coverings using the thin-bed method, as well as substrate for plaster and other materials
- Vapour barrier
- Effective thermal insulation
- Design element
- Compound seal with tile and slab coverings on wall surfaces

System components

wedi system products

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|----------------------------|--|
| • Building board | wedi Vapor 85/ wedi Vapor 85N – 12,5 mm |
| • Building board | wedi Vapor 85/ wedi Vapor 85N – 20 mm |
| • Washer | wedi Tools washer |
| • Metal dowels | wedi Tools metal dowels |
| • Joint reinforcement tape | wedi Tools joint reinforcement tape |
| • Tile adhesive | wedi 320 |
| • Mounting adhesive | wedi 610 |

wedi sealing system

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|------------------|---------------------------------------|
| • Sealing tape | wedi Tools sealing tape |
| • Sealing gaiter | wedi Tools sealing gaiters |
| • Sealant | wedi 620, Single component sealant |

I. Processing wedi Vapor 85/wedi Vapor 85N

a) Full-surface bonding (without dowelling) to load-bearing substrates

- All substrates must be solid, load-bearing, non-deformable and free from dust, dirt and other contaminations.
- Primer must be applied to highly absorbent, mineral substrates (e.g. cement plasters, gypsum plasters).
- Primer must also be applied to smooth, non-absorbent substrates (e.g. old tiles) which cannot be removed.
- Imperfections must be levelled using suitable fillers.
- The residual moisture content of the substrates must not exceed the following values:

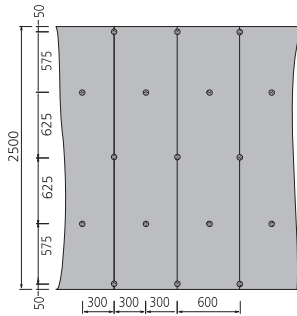
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| Gypsum-based plasters | 1,0 % |
|-----------------------|-------|

- The building boards are applied to the full surface with a thin-bed mortar and aligned. The joints of the individual building boards must be reinforced with wedi Tools reinforcement tape using commercially available thin-bed mortar or wedi Tools self-adhesive reinforcement tape.
- When in use in areas exposed to splash water and as a vapour barrier, the building board joints should be sealed with wedi Tools sealing tape using wedi 620 adhesive sealant.

b) Full-surface bonding (with dowelling) on substrates without load-bearing capacity

This fixing method is recommended when permanent bonding of wedi Vapor 85/wedi Vapor 85N to the substrate is not possible due to impervious surfaces, separating layers or similar. The building board processing should be carried out as described under a). Additionally, the building boards must be dowelled before the building board joints are reinforced. wedi Tools metal dowels (galvanised or stainless steel) should be used as dowels (five dowels/m²).

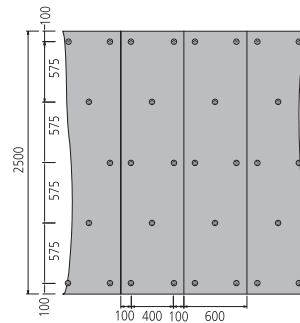
The minimum dowel driving depth in the load-bearing substrate must be 35 mm. The dowels must be positioned according to the diagrams. The reinforcement and / or sealing of the building board joints and dowelled joints should be carried out as explained under a).



Applying full-surface bonding and dowelling BA 12.5 mm, BA 20 mm.

c) Dab bonding (with dowelling) on uneven substrates

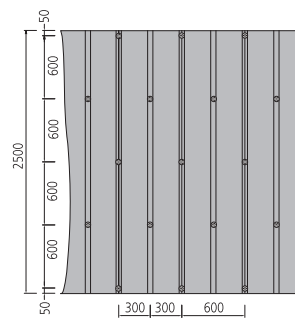
This fixing method is recommended when full-surface bonding is not possible due to uneven substrates. Mortar dabs are applied pointwise to the building board (minimum thickness 20 mm) in a thickness corresponding to the requirements of the particular application. The number and arrangement of the mortar dabs should correspond to the arrangement for dowelling, i.e. minimum five mortar dabs / m² building board. The building boards can subsequently be fixed to the wall and it must be ensured that the building boards are aligned in such a way that a substrate which is both vertically and horizontally even is formed. In addition to this, the building boards must be dowelled in the area with the mortar dabs. wedi Tools metal dowels (galvanised or stainless steel) should be used for this purpose. For this reason, it makes sense to use a screwdriver to pierce through the building board areas to which the adhesive dabs are applied afterwards in advance. The minimum dowel driving depth in the load-bearing substrate must be 35 mm. The dowels must be positioned according to the diagrams. The reinforcement and/or sealing of the building board joints and dowelled joints should be carried out as explained under a).



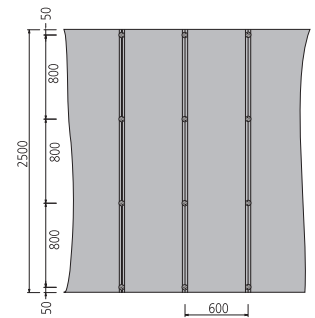
Application: mortar dabs and dowelling as from BA 20 mm.

d) Installation on wooden and/or metal stud frames

The wooden or metal substructure should be vertically and horizontally even and should not exceed a maximum stud distance of 600 mm. Covering takes place using wedi Vapor 85/wedi Vapor 85N with a total thickness of at least 20 mm. If the distance between the studs is reduced to 300 mm, building boards with a thickness of 12.5 mm can also be used. The boards are mounted to the substructure using commercially available wood and drywall screws and wedi Tools insulation board washers (galvanised or stainless steel). The screws must be positioned according to the diagrams. Alternatively, it is possible to bond wedi Vapor 85/wedi Vapor 85N to the stud frame using wedi 610 adhesive sealant. The reinforcement and sealing of the building board joints and dowelled joints should be carried out as described under a).



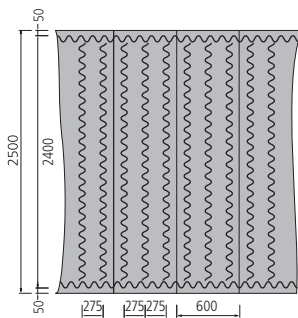
Applying BA 12.5 mm to stud frames with 300 mm centres using washers and screws.



Applying BA 20 mm to stud frames with 600 mm centres using washers and screws.

e) Mounting on load-bearing wood and wooden composite boards using adhesive beading

The building boards are aligned and attached to the substrate using wavelike adhesive beading (wedi 610) at a vertical distance of approx. 275 mm (adhesive beading Ø approx. 8 mm). The adhesive beading must be applied according to the diagrams. The reinforcement and / or sealing of the building board joints and dowelled joints should be carried out as explained under a).



Application on wooden composite boards, adhesive bead application on the substrate

II. Tiling wedi Vapor 85/wedi Vapor 85N

The building boards can be tiled directly after reinforcement without further pretreatment. Liquid waterproofing materials on sealing collars and sealing tapes (corner joints, floor and wall junctions, intersections) must be dry before tiling. It should be noted that the joint between the wall and floor covering as well as the corner joints for the wall covering have to be designed as expansion joints.

III. Applying plaster to wedi Vapor 85/wedi Vapor 85N

Application of plaster can be done on the moisture barrier surface immediately after reinforcement of the joints with no additional pretreatment of the building boards.

When plastering the surface of the mortar-coated side with gypsum-based materials, the mortar surface should be primed. The plaster manufacturer's specifications must be observed.

IV. Important information on processing and storing wedi Vapor 85/wedi Vapor 85N

When installing heavy items such as wash basins or WC bowls as well as folding seats, supporting handles or similar items, it should be ensured that they are attached to the wall behind and/or to suitable installation frames. The wedi Tools fixing set combined with moisture-resistant mounting plates can also be used for mechanically mounting heavy items on tiled or plastered wedi building boards according to the installation instructions. Load transfer must be ensured in the pressure point area. For this application, the tile size must be at least 10 × 10 cm and the tile thickness at least 7 mm. The building boards are not suitable for spot fixing and free-standing use in this case. Lighter items (e.g. soap dishes, toilet roll holders) can be mounted using cavity dowels. In order to be able to fully take advantage of the wedi Vapor 85/wedi Vapor 85N waterresistant and vapour retardant properties, joints, intersections and spot fixings should be secured with sealing tape using the sealant.

Building board intersections, e.g. by pipes or due to mounting with screws or dowels, must be sealed using sealing collars or sealing tapes and suitable sealants. The above recommendations apply only to wall applications in rooms at normal temperature.

In principle, wedi Vapor 85/wedi Vapor 85N should be stored flat irrespective of their thickness. They must be protected from direct sunlight and moisture. The use of solvent-containing substances must be avoided. The information contained in this document is correct to the best of our knowledge and was proven by numerous laboratory and practical tests. This information does not, however, provide any legal assurances.