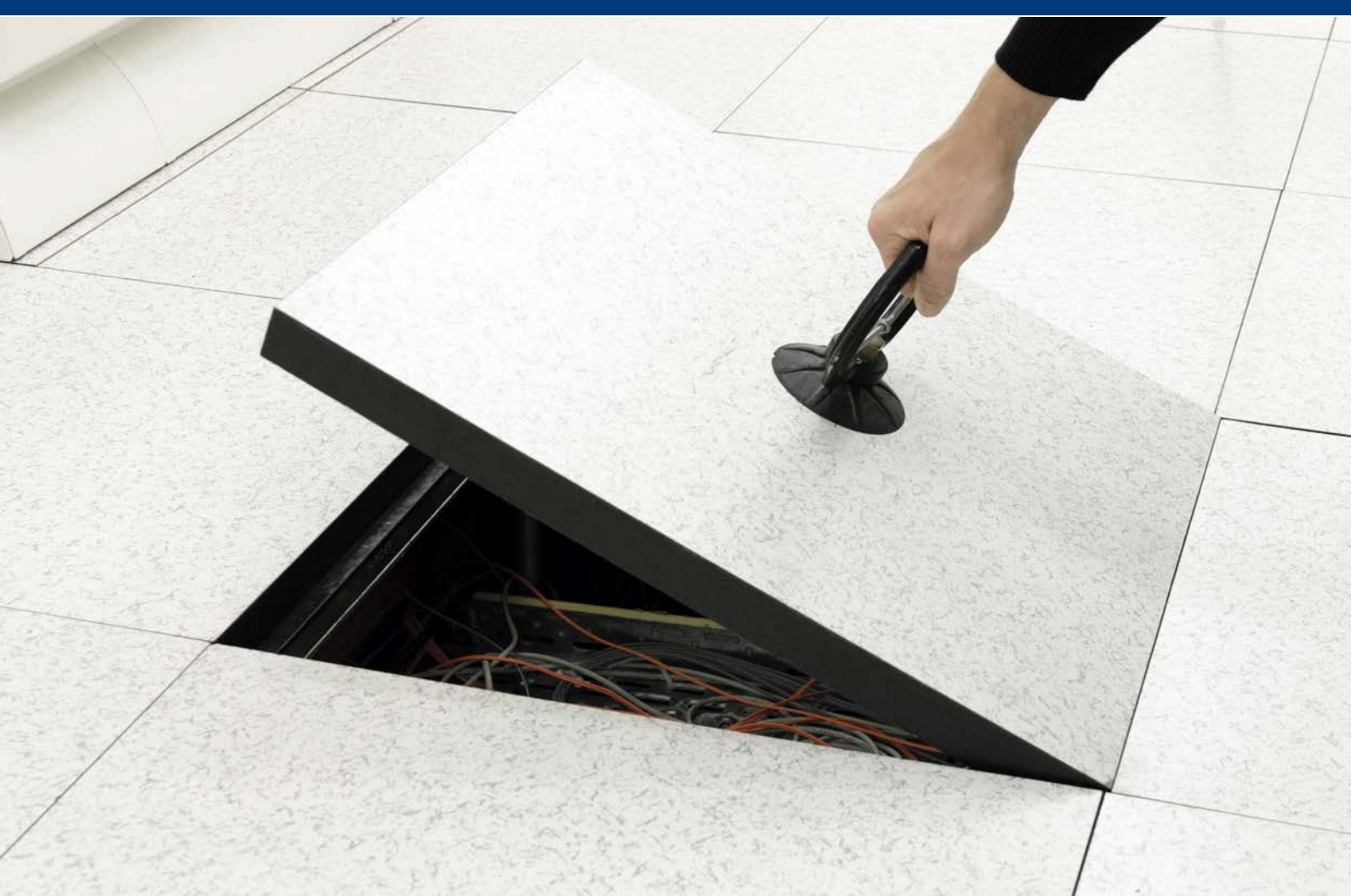


Adhesives for manufacturing and assembly of **raised floors**



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Raised floors can be made from a range of different materials such as particle boards, mineral materials, aluminium, steel plates, plastics, carpets, etc. These are joined together to produce the final product and later installed with the aid of metal supports. A variety of adhesives are used during manufacturing and installation.

Manufacturing

KLEIBERIT's portfolio includes many products tailored to the different needs in raised floor manufacturing and installation. Dispersion adhesives, two-component systems, reactive and thermoplastic hotmelts all provide high-strength and reliable bonding.

EDGE BANDING IN MANUFACTURING RAISED FLOOR BOARDS

Edge banding protects the open raised floor board. Special edging materials are used to dissipate any electrostatic discharge that may occur. Laminate edges, polyester edges, resin impregnated paper edges, and PVC edges are examples of typical edge banding materials. We recommend using EVA hotmelts for efficient production processes. Depending on the combination of materials used, pre-treating with a primer can lead to improved bonding results. EVA dispersions can also be used for edging raised floor boards.

ADHESIVES FOR FITTING RAISED FLOORS

Raised floor boards can be laminated with specific materials, either for aesthetic reasons or to meet the usage requirements. Raised floors must be electrically conductive, washable, water-

proof, and suitable for use with wheelchairs. Textile surfaces – whether non-woven or carpet surfaces with or without latex or synthetic backings – all need to be glued or bonded in some way. Finding the right adhesive depends on the materials used and the manufacturing process.

GLUING THE MOISTURE BARRIER IN RAISED FLOOR MANUFACTURING

A moisture barrier is applied to the whole underside of the raised floor in order to prevent any moisture seeping into the board from below. This ensures a stable and even surface over the long-term without changes to the properties. The adhesive has to be permanently resistant to heat sources and moisture seeping in to the glued joints. Reactive hotmelts are increasingly becoming the product of choice for such purposes.

Assembly

A range of different adhesives are used for installing raised floors. Glues are used to lock threads and fix supports, and special dispersions are used to carry out sealing work on screed.

THREAD LOCKING WITH 1C ADHESIVES

Raised floor boards are installed on a structure of frames and supports, with threaded rods being used to adjust the height of the supports. Over time, the height of the threaded rod can change due to constant pressure being applied to the floor, leading to unevenness. To prevent this, thread locking adhesives are used to connect the threaded rod to its position so that it stays in place and the height remains the same.

GLUING SUPPORTS WITH 1C ADHESIVES

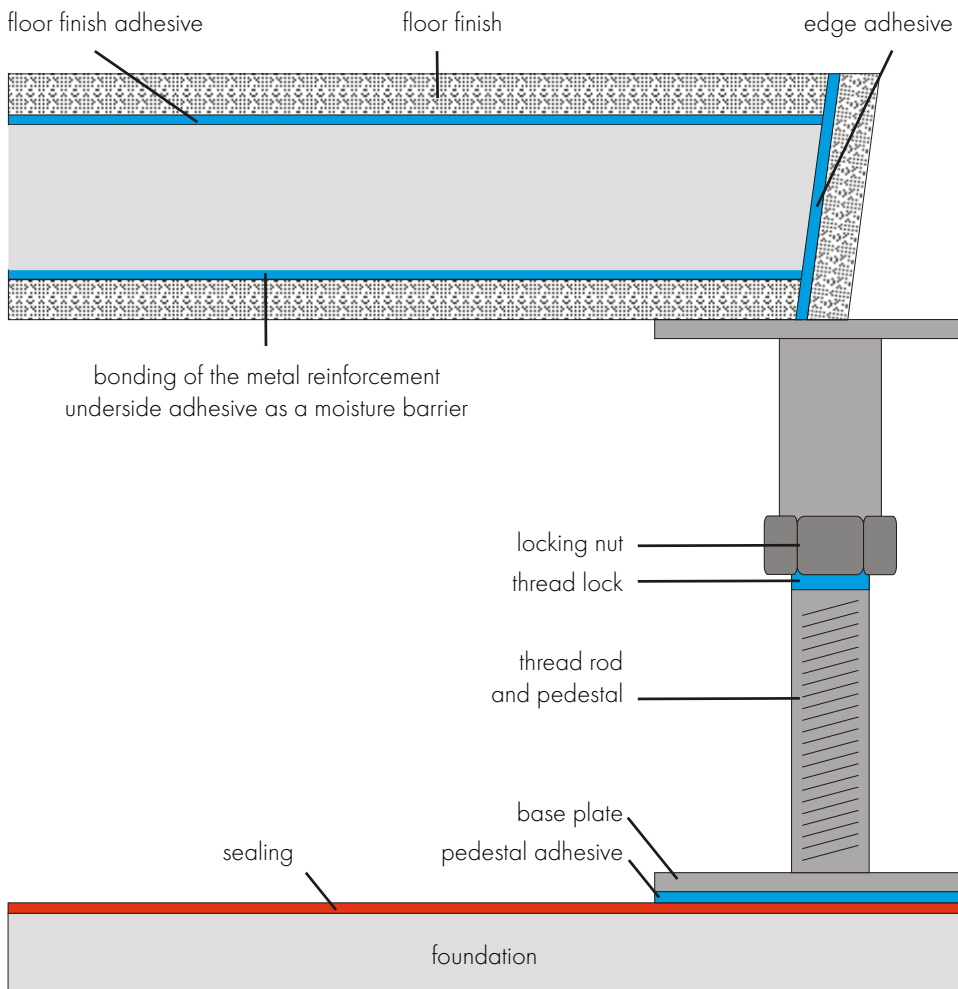
Raised floor supports are glued to the subfloor to prevent them from moving during the course of use. Pasty, one-component reactive adhesives have become established for this purpose.

Complex mixing processes on the construction site, as required for 2-component products, are no longer necessary. Mixing errors can no longer occur. 1C products can be applied very easily from handy containers at any desired point on the floor.





SEALING THE SUBFLOOR WITH AN ACRYLATE DISPERSION

A sealant can be applied to improve the subfloor and also to bind dust particles. This additionally creates an ideal Base for bonding the supports. The sealant is applied in a thin layer and waterproofs the surface of the foundation. It does not, however, even out any irregularities in the floor.

Exemplary structure of the raised floor



Adhesives for flat lamination of raised floors

Product	Base	Certificate	Adhesive properties		Applications
			non-conductive	conductive	
404.6	VA/E copolymer	IMO certified		•	Bonding of carpets and plastic coverings, dyed black
404.8 	VA/E copolymer	GEV-Emicode EC1 ^{plus}		•	Bonding of carpets and plastic coverings, dyed grey
405.3	synthetic resin dispersion			•	Bonding galvanized steel sheets and aluminium foil moisture barriers
405.5 	synthetic resin dispersion	GEV-Emicode EC1 ^{plus}		•	Bonding of galvanized steel sheets
466.0	VA/E copolymer		•		Bonding of plastic coverings and aluminum foil moisture barriers
596.1/2 	2C PUR	GEV-Emicode EC1 ^{plus}	•		Bonding of carpets / plastic coverings and galvanized steel sheets
596.6/7 	2C PUR	GEV-Emicode EC1 ^{plus}	•		Bonding of plastic coverings and galvanized steel sheets

Adhesives for edgbanding of raised floors

Product	Base	Adhesive suitable for ...			Applications
		non-conductive, gypsum fibre board	non-conductive chipboard	conductive chipboard	
707.6	PUR HM		•		Bonding of plastic and paper edges
728.7	PSA	•			Bonding of plastic and paper edges
771.2	EVA copolymers			•	conductive product for bonding of plastic and paper edges
777.0./2./4	EVA copolymers		•		Bonding of plastic and paper edges
779.7	EVA copolymers		•		Bonding of plastic and paper edges
788.3	EVA copolymers	•	•		Bonding of plastic and paper edges

Primer for edgbanding of raised floors

Product	Base	Primer suitable for ...			Applications
		non-conductive, gypsum fibre board	non-conductive chipboard	conductive chipboard	
555.6	1C PUR	•	•	•	Edge improvement of chipboard and gypsum fibre board
837.0	artificial resin/solvent	•	•	•	Edge improvement of chipboard and gypsum fibre board

Product for on-site assembly of raised floors

Product	Base	Certificate	Applications
473.0 	acrylate dispersion	GEV-Emicode EC1 ^{plus}	Floor primer for dust binding
504.0	1C PUR		Thread lock on the supports
539.5	2C PUR		Pedestal adhesive for clean rooms
566.0	1C PUR		Pedestal adhesive (general, not for clean rooms)

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