



ARDEX AF 181 W

SMP wall adhesive for LVT coverings

- Ideally suited for installation on wall surfaces
- Also suitable for laying on the floor
- For heavy-duty applications
- Easy handling
- No mixing - no residual quantities
- Order with roll possible

ARDEX system product: Particularly secure bonding properties with ARDEX levelling compounds, designed for odourless behaviour and clean indoor air.



Area of application

Indoor and outdoor. Walls and floors.

SMP adhesive for bonding:

- homogeneous and heterogeneous LVT flooring in sheets and tiles
- LVT design flooring
- CV coverings
- Rubber coverings in sheets and tiles
- PVC-cork coverings according to ÖNORM EN 655
- Dirt traps with PVC coating
- PVC-free flooring
- PVC wall coverings
- Linoleum coverings
- Needle felt coverings
- Artificial turf coverings

on suitable, absorbent and non-absorbent substrates in indoor and outdoor areas.

Art

Silan-modified polymer that hardens when it reacts with moisture.

Preparation of the surface

Wall surface:

The substrate must be dry, solid, and have a grippy or textured surface, free of dust, dirt, and other release agents. Wallpaper, paint coatings that are not firmly adhered or weakly bonded, and loose plaster must be removed. Varnishes, latex plastics, latex paints and similarly dense substrates must be cleaned of wax, oil and grease before applying filler. The substrate must be prepared so that the surface is smooth and even. For this purpose, we recommend ARDEX R 1 Renovation-compound and, for wet areas, ARDEX FIX Super fast levelling compound. The technical information for the products used must be observed.

Floor substrate:

The substrate and the room climate conditions must comply with the requirements of ÖNORM B 5236. Subfloors must be level, permanently dry, solid, free of cracks, contamination and substances that inhibit adhesion.

Fill substrates with appropriate ARDEX levelling compounds. Observe the technical information for the primers and levelling compounds.

Mastic asphalt screeds and other substrates sensitive to plasticisers must be primed with ARDEX PU 30 1-K PU primer and, if necessary, levelled with suitable ARDEX levelling compounds in a layer thickness of at least 2 mm. Wood chipboard and wooden substrates must be firmly bonded to the substrate and glued in tongue and groove.

Outdoors, the surface can be primed once with ARDEX EP 2000 Multifunctional Epoxy Resin without sanding before

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applying the adhesive. The primed surface must be covered within 24 hours after application.

Processing

Application to the wall:

Apply adhesive evenly to the substrate using a roller or notched trowel, avoiding pockets of adhesive. Allow the adhesive to react for approx. 20 to 40 minutes, depending on climatic conditions. The application time and curing speed depend on the temperature, air humidity and moisture content of the substrate. Low temperatures and low humidity prolong the application time and delay the curing speed. Higher temperatures and higher humidity shorten the application time and accelerate the curing speed.

On non-absorbent substrates, a relative humidity of at least 50% is required. Lay the covering within the open time, ensuring that the back of the covering is fully wetted with adhesive.

System structure and application on wall surfaces in wet areas:

If necessary, the substrate is levelled with ARDEX FIX Flash Plaster. After allowing sufficient drying time, ARDEX AF 181 W SMP Wall Adhesive for LVT coverings is applied evenly to the substrate with a roller or notched trowel, avoiding pockets of adhesive. After a flash-off time of 20 to 40 minutes, depending on the climatic conditions, embed the ARDEX SK 100 W TRICOM sealing membrane fully into the adhesive bed, ensuring that the joints are butt-jointed. Then apply ARDEX AF 181 W in the required width over the joints and embed the ARDEX SK 12 TRICOM sealing tape fully into the adhesive bed.

Make sure that ARDEX AF 181 W is applied to cover the entire width of the seal collars, sealing tapes and sealing corners if ARDEX FIX is to be used to fill joints and gaps.

Wall corners are sealed with the appropriate ARDEX TRICOM indoor or outdoor corners. The corners are bonded to the substrate with ARDEX AF 181 W.

After a curing time of approx. 2 hours, fill the joints with ARDEX FIX Flash Filler. Then apply ARDEX AF 181 W evenly to the substrate with a roller or notched trowel, avoiding pockets of adhesive. After a flash-off time of 20 to 40 minutes, depending on climatic conditions, the covering is laid. The back of the covering must be sufficiently moistened with adhesive.

Processing on floors:

Apply the adhesive evenly to the substrate with a notched trowel, avoiding pockets of adhesive. Allow the adhesive to react for approx. 20 to 40 minutes, depending on climatic conditions. Lay the covering within the laying time, ensuring that the back of the covering is sufficiently moistened with adhesive. On non-absorbent substrates, a relative humidity of at least 50% is required.

When laying sheet goods on absorbent substrates such as ARDEX floor levelling compounds, a flash-off time of approx. 10 - 20 minutes is recommended to minimise squashing of the adhesive bed. Roll the coverings again after approx. 1 hour. The laid surfaces should not be walked on immediately for the first 4 to 6 hours.

Recommended notched trowel and application quantity

The adhesive can be applied using suitable rollers. We recommend L'Outil Parfait putty rollers in 22 cm width for large areas and in 8 cm width for joints and small areas.



500 - 550 g/m²
for multi-layer LVT, PVC, CV and rubber floor coverings



TKB A2

330 - 420 g/m²

For rubber flooring < 2.5 mm thick, design flooring, CV flooring, homogeneous and heterogeneous PVC flooring, PVC-free flooring



TKB B1

430 - 480 g/m²

For rubber coverings > 2.5 mm thick, needle fleece coverings, PVC dirt traps with smooth backing, linoleum, ARDEX impact sound insulation and decoupling boards, needle fleece and cork coverings with smooth backing



TKB B2

520 - 580 g/m²

For needle-punched and cork coverings with coarse backing, LVT dirt barriers with structured backing, artificial turf coverings.

The notched trowel must be selected to ensure that the back of the covering is sufficiently wetted. Rough or uneven substrates and coarse-pored, textured backs require correspondingly coarse notched trowels.

*) Application quantity determined with Pajarito notched trowel on ARDEX levelling compounds.

Practical tip

- Do not use a dispersion primer under ARDEX AF 181 W.
- For additional protection of wall coverings in wet rooms, we recommend applying a polyurethane coating, e.g. Dr. Schutz Anticolor. The adhesion of Dr. Schutz PU Anticolor is guaranteed on coverings from Gerflor-Mipolam, Project Floors and Objectflor. The adhesion of other protective sealants must be checked with the respective manufacturer.
- If ARDEX FIX is to be used to fill joints and gaps, ensure that ARDEX AF 181 W is applied to cover the entire width of the seal collars, sealing tapes and sealing corners.
- Clean tools immediately after use with ARDEX CW cleaning cloths or alternatively with oil- or wax-based cleaning agents.
- When removing partial quantities from the container, replace the aluminium foil or similar on the remaining adhesive.
- Finished surfaces can be walked on after 6 hours and used after 24 hours.
- Do not apply at floor temperatures below +15°C and room temperatures below +18°C; room humidity should preferably be between 50% and 65%. In cold weather, allow LVT and rubber adhesives to warm up in a heated room in good time. All information refers to approx. +20°C and 50% relative humidity. Higher relative humidity shortens the times.

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- Remove any skin on the adhesive (e.g. due to improper storage or after opening) and do not stir in.
- The laying instructions of the flooring manufacturer and the currently valid standards and rules of the trade must be observed.
- Use suitable, approved coverings for installation on walls and in wet areas.
- If in doubt, carry out test bonding.

Note

The information in our safety data sheets must be observed.
For commercial users only!

Additional information

Proceed carefully during application: avoid dust formation and release into the environment.
Dispose of the container and its contents in a sealed state in accordance with applicable local/regional/national/international regulations.

Technical data according to ARDEX quality standard

Material requirements	330 - 580 G/m ² depending on the notched trowel or roller used
Base	Silane-modified polymer
Flash-off time approx.	10 - 40 Minutes
Processing temperature	+18 °C
Insertion time approx.	10 - 45 Minutes
Setting time	24 - 48 Hours
Relative humidity (RH)	50 % (min.)
Cleaning agents	Before curing, clean with ARDEX CW cleaning cloths or a suitable oil- or wax-based cleaning agent

Product details

Suitable for underfloor heating	Yes
Chair castor suitability	Yes (rolls according to ÖNORM EN 12529)
Labelling according to GHS/CLP	See relevant safety data sheet
Labelling according to ADR	See relevant safety data sheet
EMICODE	EC 1 PLUS = very low emissions PLUS
GISCODE	RS10 = Installation materials, containing methoxysilane
Packaging	Bucket with 7.5 kg net weight
Storage	Can be stored in dry rooms for approx. 12 months in the original sealed container. Opened containers should be sealed tightly and the contents used up quickly.