



# ARDEX AF 181W

## SMP wall adhesive for LVT coverings

- Optimally designed for application on wall surfaces
- Also suitable for floors
- For areas subject to heavy loads and stresses
- Easy to handle
- No mixing – no residual volumes
- Can be applied with a roller



### ARDEX SYSTEM PRODUCT

Particularly strong adhesive properties when used with ARDEX levelling compounds, designed to be odourless and to help ensure clean ambient air. Member of the Gemeinschaft Emissionskontrollierter Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V. (Association for the Control of Emissions in Products for Flooring Installation, Adhesives and Building Materials – GEV).



### Use

Interiors and exteriors. Walls and floors.

SMP adhesive for adhering:

- Homogeneous and heterogeneous PVC coverings for paths and tiles
- PVC design coverings
- CV coverings
- Rubber coverings for paths and tiles
- PVC cork coverings in accordance with the EN 655 standard
- Dirt and sediment trap areas with PVC coating
- PVC-free coverings
- PVC wall coverings and panelling
- Linoleum coverings
- Needle felt coverings
- Artificial grass coverings

On suitable absorbent and non-absorbent substrates in indoor and outdoor areas.

### Type

Silane-modified polymer that hardens in a reaction with moisture.

### Substrate preparation

#### Wall substrates:

The substrate must be non-slip, dry, solid and free of dust, dirt and other release agents. Wallpaper, paint and coatings that are no longer adhesive or display little adhesion, as well as loose plaster, must be removed. Lacquers, latex plastics, latex paints and similar sealed substrates must be made free of wax, oil and grease before application of the product. The substrate should be prepared in a manner that makes the surface smooth and flat. For this we recommend the ARDEX wall filler ARDEX R 1 renovation wall filler and, for wet areas, ARDEX FIX super fast levelling compound. Make sure you pay attention to the technical information for the products that you use.

#### Floor substrates:

Substrates must be flat, permanently dry, solid, and free of cracks, dirt and substances that inhibit adhesion.

Appropriate ARDEX levelling compounds should be applied to substrates. Make sure you pay attention to the technical information for pre-coats and levelling compounds.

Mastic asphalt screeds and other substrates that are sensitive to plasticisers should be primed with ARDEX PU 30 and smoothed if necessary with suitable ARDEX levelling compounds in a layer thickness of at least 2 mm.

Chipboards and wood substrates must be firmly attached to the substrate below and have cross-bonded tongue and groove joints. Outdoor surfaces can be primed one time with ARDEX EP 2000 (without sanding) before the adhesive is applied. The primed surface must be covered within 24 hours after priming.

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### Application

#### On walls:

Use a roller or notch trowel to evenly apply the product to the substrate,

whereby globs of adhesive are to be avoided here. Allow the adhesive to react with a flash-off time of approx. 20 to 40 minutes, depending on climate conditions. Open time and hardening speed depend on temperature, humidity and the amount of moisture in the substrate.

Low temperatures and low humidity extend the open time and decrease

hardening speed. Higher temperatures and higher humidity shorten the open time and increase the hardening speed.

Relative humidity of at least 50% is required for non-absorbent substrates. Lay the covering within the open time period; the rear side of the covering needs to have a sufficient amount of adhesive.

#### System structure and application on walls in wet areas:

If necessary, ARDEX FIX super-fast levelling compound should be applied to the substrate. After the corresponding drying time has passed, a roller or notch trowel should be used to apply ARDEX AF 181 W evenly to the substrate, whereby globs of adhesive are to be avoided here. After a flash-off time of 20 to 40 minutes, and depending on climate conditions, ARDEX SK 100 W TRICOM sealing membrane should be quickly and tightly embedded without overlapping into the adhesive bed along the entire surface. After that, ARDEX AF 181 W should be applied in a sufficient width over the connecting areas and ARDEX SK 12 TRICOM sealing membrane should be embedded into the adhesive bed along the entire surface.

Care must be taken to ensure that ARDEX AF 181 W is applied congruent to the width of the sealing collars, sealing tape and sealing corners in the event that ARDEX FIX is to be used for additional levelling of the connecting areas and offsets.

Wall corners should be sealed with ARDEX TRICOM for inner or outer corners as the case may be. Here, ARDEX AF 181 W is applied to the corner substrates.

After a curing time of approx. 2 hours, the connecting areas should be smoothed using ARDEX FIX super-fast levelling compound. After that a roller or notch trowel should be used to apply ARDEX AF 181 W evenly to the substrate, whereby globs of adhesive are to be avoided here. The covering should be laid after a flash-off time of 20 to 40 minutes, depending on climate conditions. The rear side of the covering needs to have a sufficient amount of adhesive.

#### Application on floors:

Use a notch trowel to evenly apply the product to the substrate, whereby globs of adhesive are to be avoided here. Let the adhesive react with a flash-off time of approx. 20 to 40 minutes, depending on climate conditions. Lay the covering within the open time period; the rear side of the covering needs to have a sufficient amount of adhesive. Relative humidity of at least 50% is required for non-absorbent substrates.

When laying coverings of the same width but with different lengths on absorbent substrates such as those treated with ARDEX floor levelling compounds, a flash-off time of approx. 10 – 20 minutes is recommended for the adhesive in order to minimise any squashing of the adhesive bed. Coverings should be rolled over again after approx. 1 hour. The freshly laid surfaces should not be walked on for 4 – 6 hours.

### Recommended notch trowels and application amounts:

The adhesive can be applied with suitable rollers. We recommend L'Outil Parfait coating rollers with a width of 22 cm for large surfaces and 8 cm for connecting areas and small surfaces.



500 – 550 g/m<sup>2</sup>  
for multi-layer PVC design coverings and PVC, CV  
and rubber coverings



**TKB A2**  
330 – 420 g/m<sup>2</sup>\*

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



**TKB B1**  
430 – 480 g/m<sup>2</sup>\*

For rubber coverings > 2.5 mm thick, needle felt coverings, dirt and sediment trap areas made of PVC and with a smooth reverse side, linoleum, ARDEX impact sound insulation and decoupling plates, needle felt and cork coverings with a smooth reverse side



**TKB B2**  
520 – 580 g/m<sup>2</sup>\*

For needle felt and cork coverings with a coarse reverse side, sediment trap areas made of PVC with a structured reverse side, artificial grass coverings A notch trowel should be selected that ensures sufficient adhesion of the rear side of the covering. Rough or uneven substrates and coarsely porous structured reverse sides require the use of a correspondingly coarse notch trowel.

\*) Application amount determined with a Pajarito toothed strip used on ARDEX levelling compounds.

### Tip

- Do not use a dispersion primer underneath ARDEX AF 181 W.
- We recommend that you subsequently apply a protective sealing to PVC design coverings – e.g. PU Anticolor from Dr. Schutz.
- For additional protection of wall surface coverings in wet areas, we recommend that you apply a polyurethane coating – e.g. Dr. Schutz Anticolor. The adhesion of Dr. Schutz PU Anticolor is guaranteed on coverings produced by Gerflor-Mipolam, Project Floors and Object-flor. For information on the adhesion of other protective sealings, please consult with the manufacturer in question.
- If ARDEX FIX is to be used for additional levelling of the connecting areas and offsets, it must be ensured that ARDEX AF 181 W is applied congruent to the width of the sealing collars, sealing tape and sealing corners.
- Tools should be cleaned immediately after use with ARDEX CW-cleaning cloths or cleaning agents containing oil or wax.
- If smaller quantities are taken from the packaging, be sure to place aluminium foil or a similar material on the remaining adhesive.
- Finished surfaces can be walked on after 6 hours and used normally after 24 hours.

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- Do not apply in the case of floor temperatures below +15°C and room temperatures below 18°C; humidity in rooms should ideally be between 50% and 65%. In case of cold weather, PVC and rubber adhesives should be placed in a heated room with the right temperature in a timely manner. All information applies to conditions of approx. +20°C and 50% relative humidity. Higher relative humidity shortens the times indicated.
- Any skin found on the adhesive (e.g. due to improper storage or failure to properly close the package) should be removed; it should not be mixed in with the rest of the adhesive.

### Please note

The installation instructions of the covering manufacturers, as well as currently valid industry standards and regulations, are to be complied with. When in doubt, perform test bondings. Use suitable approved coverings for installation on walls and in wet areas.

Please follow all instructions in our Safety Data Sheets.

### Technical Data According to ARDEX Quality Standards:

Material requirement:	approx. 330 – 580 g/m <sup>2</sup> depending on the notch trowel used
Basis:	Silane-modified polymer
Flash-off time:	approx. 10 – 40 minutes
Working temperature:	+18°C
Open time:	approx. 10 – 45 minutes
Setting time:	24 – 48 hours
Relative humidity:	50% (minimum)
Cleaning:	Before hardening, clean with ARDEX CW cleaning cloths or suitable cleaning agents containing oil or wax

### Product details

Suitable for use in conjunction with underfloor heating systems:	Uygun
Resistance to castors:	Yes (castors in accordance with the EN 12529 standard)
Classification according to GHS/CLP:	see the corresponding Safety Data Sheet
Classification according to ADR:	see the corresponding Safety Data Sheet
EMICODE:	EC1 <sup>PLUS</sup> – very low emissions <sup>PLUS</sup>
GISCODE:	RS10 – Flooring installation product, contains methoxysilane
Packaging:	7.5 kg (net) pail
Storage:	Shelf life of approx. 12 months when stored in the original unopened packaging in a dry location. Reseal packages tightly after they are opened; use quickly.