



# ARDEX AF 180

SMP Technology

## One-Component Heavy Duty Adhesive

- MS Polymer adhesive for vinyl, rubber and PVC floorcoverings
- Moisture, weather and water resistant
- Suitable for internal and external use
- High temperature resistance - for use in areas of direct sunlight
- Very high bond strength
- Very low emissions
- Solvent free



### DESCRIPTION

ARDEX AF 180 is a solvent free, low odour, wet bond Silane Modified Polymer based floorcovering adhesive. ARDEX AF 180 is protected from biodegradation and has good resistance to plasticiser migration. ARDEX AF 180 meets the requirement guidelines for the EMICODE licence 'EC1 PLUS', achieving very low emission limits

### USE

ARDEX AF 180 is ideal for installing all types of luxury vinyl tiles, sheet floorcoverings, rubber floorcoverings artificial grass in exterior locations, and can be used with all ARDEX levelling and smoothing compounds in both commercial and domestic locations.

ARDEX AF 180 is suitable for use with chairs fitted with castor wheels.

### PRIMING

Priming is not required

### SUBSTRATE PREPARATION

The subfloor must contain an effective damp proof membrane and be dry, with an equilibrium relative humidity of 75% or below. Where an effective damp proof membrane is absent, or the relative humidity of the subfloor is above 75% RH, consult ARDEX Technical Services for the correct product selection.

The surface being adhered to must be clean, firm and free dust, dirt, oil, grease, curing compounds, release agents and other barrier materials. The surface being adhered to must also be sound and smooth.

Any dust should be removed using suitable vacuum equipment, prior to applying ARDEX AF 180, as it can affect both the coverage and performance of the adhesive.

Uneven subfloors should be levelled with the appropriate ARDEX levelling and smoothing compounds e.g. ARDITEX K 60 or ARDEX K 11 T.

ARDEX A 46 can be used for repairs to the subfloor/stairs etc., in accordance with the product data sheet. Joints, nail holes and imperfections in plywood, or minor surface damage to existing levelling and smoothing compounds i.e. footprints or trowel marks, may be pre-smoothed and levelled prior to the application of ARDEX AF 180, using ARDEX Feather Finish in accordance with the product data sheet.

Fabricated underlays such as flooring grade plywood, (SP101) should be installed where required over existing timber bases. Wood-based fabricated underlays should be suitable for the floorcovering and be at the equilibrium moisture content they will have in service at the time they are covered. Light organic solvent preservative (LOSP) treated plywood is not a suitable substrate.

### MIXING

ARDEX AF 180 is ready for use and does not require mixing.

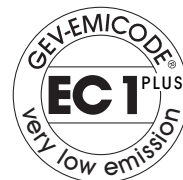
### APPLICATION

The installation area and subfloor should be kept at the recommended temperature as specified by the floorcovering manufacturer. These temperatures need to be maintained 48 hours prior to installation, during installation, and 48 hours after installation.

ARDEX AF 180 should be applied evenly to the suitably prepared substrate using the appropriate serrated trowel, held approximately at a 60 degree angle to the subfloor, to maximise coverage and avoid forming pools of adhesive.

Depending on the type of installation, the following advice should be observed.

Floorcoverings should be applied directly into the wet adhesive on absorbent backgrounds after the airing time, between 5-20 minutes depending on ambient conditions. Allowing the adhesive to air will improve early stage grab.



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Only apply sufficient adhesive that can be covered within the working time, usually 35 minutes. Periodically check that the adhesive has transferred to the rear of the floorcovering.

Remove any air pockets with a cork board or rubbing tool whilst the adhesive is still wet, and roll the floorcovering with a roller and/or a smoothing tool if required.

Roll from side to side first and then end to end. Rolling will ensure good overall contact and minimise the potential for adhesive show through.

Some floorcoverings may benefit from further rolling/smoothing. Heat welding should only commence once the adhesive has dried sufficiently.

Do not allow the floor to be wet cleaned immediately after the floorcovering has been installed. Allow significant time for the adhesive bond to develop before wet cleaning commences, typically 48 hours at 20°C.

When applying adhesive onto the substrate, ensure that any adhesive which is surplus to requirements, and has been moved across the subfloor, is not placed back into the container. It should be placed into an alternative container for safe, easy disposal. This will avoid possible contamination issues.

### UNDERFLOOR HEATING

Underfloor heating systems should be commissioned in accordance with the heating manufacturer's instructions. Thermal cycling of the subfloor will require raising the temperature of the substrate slowly to full operating temperature, held for a defined period, and slowly brought back down so that any shrinkage that is likely to take place occurs before the floorcovering is installed.

Moisture tests are required to verify the relative humidity of the substrate, the underfloor heating system should be switched off for 48 hours prior to testing. After the tests are completed, the heating system should be stabilised to room temperature, but not below 15°C, before installing the floorcovering.

The floorcovering should be allowed to acclimatise to the substrate temperature before installation with ARDEX AF 180. After installation allow at least 48 hours of constant temperature for the adhesive to properly cure, before slowly increasing the temperature up to the normal operating temperature of the area at a rate of approximately 2°C per day.

Do not subject the floor to static or dynamic loads, loaded trolleys, etc., or move fixtures, furniture, etc., onto the flooring until the adhesive has fully set, typically 48 hours at 20°C.

### HIGH TEMPERATURE

ARDEX AF 180 is suitable for use over underfloor heating systems and is classified as high temperature resistant. ARDEX AF 180 is suitable for use in areas of high solar gain such as conservatories and northerly facing aspects. The surface floor temperature must not exceed 50°C for prolonged periods. Consult the floorcovering manufacturer for detailed guidance.

### PRECAUTIONS

ARDEX AF 180 is non-hazardous in normal usage, however, good hygiene practices should be followed. Avoid contact with skin; wash off with soap and water before drying takes place. In case of contact with eyes, rinse carefully and thoroughly with water and seek medical advice. In case of ingestion seek medical assistance. Consult the relevant Safety Data Sheets for further information.

For the latest technical or health and safety information on this product, consult the current product or safety data sheet online at: [www.ardex.com.tr](http://www.ardex.com.tr)

### CONSUMPTION

See table below.

The actual coverage achieved in practice is affected by application technique, as well as the texture and absorbency of the subfloor.

LVT Vinyl, PVC and CV flooring, Rubber flooring

 TKB A1 - Consumption  
300 - 350 gr/m<sup>2</sup>

 TKB A2 - Consumption  
370 - 420 gr/m<sup>2</sup>

Rubber floorings with sanded back < 3.2mm  
 TKB B1 - Consumption  
430 - 480 gr/m<sup>2</sup>

Needle fleece, Artificial grass  
 TKB B2 - Consumption  
520 - 580 gr/m<sup>2</sup>

### TECHNICAL DATA ACCORDING TO ARDEX QUALITY STANDARDS

Raw material base:	MS (Modified Silane) Polymer
Consumption:	300-500gr/m <sup>2</sup> , depending on trowel size
Working temperature:	Above +18°C
Relative humidity:	At least %50
Airing time*:	approx. 20 minutes
Working time*:	approx. 35 minutes
Drying time*:	approx. 24 - 48 hours

\*All data is approximately based on laboratory test made at a temperature of +20°C and relative humidity of %65. Environmental conditions may change these values. Higher temperatures and lower relative humidity decrease these duration whereas lower temperature and higher relative humidity increases them.

Cleaning	Remove spills or seepage with heavy duty cleaning wipes. Aggressive cleaning agents should only be used with the permission of the floorcovering manufacturer.
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Suitable for underfloor heating	Yes
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EMICODE:	EC 1 PLUS - Very low emission
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GISCODE:	RS 10
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GHS/CLP classification	None
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GGVSEV/ADR classification:	None
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Packaging:	Net 7,5kg bucket
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Storage & shelf life:	ARDEX AF 180 has a shelf life of 12 months if stored in good conditions, between 5°C and 30°C, in the original unopened container. Do not allow to freeze.
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