



ARDEX AF 180 MS

One-Component Heavy Duty Adhesive

MS Polymer adhesive for resilient floor coverings, VCT and LVT

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

Covers up to 40m²



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DESCRIPTION

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

USE

ARDEX AF 180 MS is ideal for internal and external installation of all LVT, resilient floor coverings and linoleum in their respective intended commercial or domestic applications. It is also suitable for rubber floor coverings artificial grass and can be used with all ARDEX levelling and smoothing compounds in both commercial and domestic locations.

ARDEX AF 180 MS 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 contact 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 in accordance with the relevant clauses of AS 1884:2012. Any dust should be removed using suitable vacuum equipment, prior to applying ARDEX AF 180 MS, as it can affect both the coverage and performance of the adhesive.

Uneven subfloors should be levelled with the appropriate ARDEX levelling, patching and smoothing compounds. 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 MS.

Fabricated underlays such as flooring grade plywood, should be installed where required over existing timber bases. Wood-based fabricated underlays should be suitable for the floor covering 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 MS 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 floor covering manufacturer and the relevant clauses of AS 1884:2012. These temperatures need to be maintained 48 hours prior to installation, during installation, and 48 hours after installation.

ARDEX AF 180 MS 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:

Floor coverings 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.

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 floor covering.

Remove any air pockets whilst the adhesive is still wet, and roll the floor covering with a roller (minimum 25kg) 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 floor coverings may benefit from further rolling/smoothing after approximately 30 minutes. Heat welding should only commence once the adhesive has dried sufficiently after 24 hours.

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

SUITABLE TEMPERATURES

ARDEX AF 180 MS is suitable for use over underfloor heating systems and is classified as high temperature resistant. ARDEX AF 180 MS 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.

ARDEX AF 180 MS is suitable for use in cool rooms and freezers. At least 3 days prior to the installation, during the installation and at least 3 days after the installation the subfloor temperature must be at least 15°C and the air temperature must be 18°C. Please confirm with the flooring manufacturer if their product is suitable for use at these temperatures.

CLEANING

Remove spills or seepage with heavy duty cleaning wipes. Aggressive cleaning agents should only be used with the permission of the floor covering manufacturer.

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PACKAGING

ARDEX AF 180 MS is packed in plastic foil sealed pails 12kg net weight.

COVERAGE

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

SHELF LIFE

ARDEX AF 180 MS has a shelf life of 12 months when stored in the original unopened packaging, in a dry place at 23°C and 50% relative humidity. Replace foil seal to top of product when not in use. When using previously opened product remove any skin that has formed during storage between uses.

Pay attention to the following

Before any substrate preparation, installation or finishing methods relating to ARDEX product are undertaken, please be aware of any potential risks and use appropriate PPE (personal protective equipment). This may involve contacting substrate manufacturers for Safety Data Sheets.

SAFETY DATA

Avoid contact with skin and eyes; in case of contact with the eyes, wash out immediately with fresh running water. If irritation continues, seek medical attention. Wear protective gloves, clothing and eye protection. Avoid inhaling dust/fumes/gas/mist/vapours/spray. Ensure adequate ventilation during mixing and application. Store locked up. Check with your local Council regarding the disposal of contents, dispose of packaging thoughtfully and recycle where possible. Keep out of the reach of children. Call the Poisons Information Centre on 131 126 (AUS) and 0800 764 766 (NZ) or call a doctor if you feel unwell.

At times updates can occur to data. For additional information and to ensure you have the most current technical and safety information please consult the latest Safety Data Sheet (SDS) and Technical Data Sheet found on the product page at www.ardexaustralia.com.

TECHNICAL DATA

Airing Time*:	5 - 20 minutes
Working Time:	35 minutes
Open Time:	40 minutes
Specific Density:	1.4
Coverage:	See table

*The time the adhesive must be left open before applying the floorcovering. This will vary depending on the absorbency of the subfloor and ambient conditions. The guidance from the floor covering manufacturer should always be followed if different from the information contained in this Technical Data Sheet.

Flooring Type	Trowel Size	   	Coverage
LVT Vinyl, PVC and CV flooring, Rubber flooring	A1 	1.1 1.5 0.5 55°	Up to 40m ²
LVT Vinyl, PVC and CV flooring, Rubber flooring	A2 	1.4 1.7 1.3 55°	Up to 37m ²
Rubber floorings with sanded back < 3.2mm	B1 	2.0 2.4 2.6 55°	Up to 27m ²
Needle fleece, Artificial grass	B2 	2.55 3.0 2.0 55°	Up to 13m ²



Notch depth mm



Notch width mm



Notch bridge width mm



Angle °

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DISCLAIMER

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standards. Our instructions and recommendations are only for the uses they are intended. Users are advised to confirm that this product is suitable for their application and conforms with the specifications of the system. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program. Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific installation recommendations. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

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This data sheet was issued in November 2020 and is valid for 3 years, in some instances a newer version may be published. Always refer to www.ardexaustralia.com for the latest technical data from ARDEX Australia Pty Ltd.