



ARDEX AF 165

Sheet Vinyl Adhesive

- High initial tack
- Can receive floorcoverings up to 30 minutes after airing
- Excellent early and long term adhesive strength
- High temperature resistance, suitable for use over underfloor heating systems
- Solvent free
- Covers up to 67m²



DESCRIPTION

ARDEX AF 165 is a water-based, low odour, solvent free, wet bond acrylic emulsion-based floorcovering adhesive. With a reduced airing-time, ARDEX AF 165 offers excellent application properties and produces very good early and long term adhesive strength. It is protected from biodegradation and has good resistance to plasticiser migration. ARDEX AF 165 meets the requirement guidelines for the EMICODE licence 'EC1 PLUS', achieving the lowest possible emission limits.

USE

ARDEX AF 165 is ideal for installing all types of vinyl sheet floorcoverings, and can be used with all ARDEX Latex and Water-Based Levelling and Smoothing Compounds in both commercial and domestic locations. ARDEX AF 165 is suitable for use with chairs fitted with castor wheels.

PRIMING

Priming is not required, however, on highly absorbent surfaces it can be advantageous to prime with ARDEX P 51 Priming and Bonding Agent diluted 1:3 with cold, clean water. This will maintain the working time and ensure maximum coverage of the adhesive.

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 the ARDEX Moisture Control brochure or contact ARDEX Technical Services for the correct product selection.

The subfloor must be hard, clean, free from barrier materials, sound and smooth in accordance with the relevant clauses of BS 8203 and

BS 8204. Any dust should be removed using suitable vacuum equipment, prior to applying ARDEX AF 165, as it can affect both the coverage and performance of the adhesive.

Uneven subfloors should be levelled with the appropriate ARDEX Latex or Water-Based Levelling and Smoothing Compound e.g. ARDITEX NA or ARDEX K 39.

ARDEX ARDURAPID A 45 Rapid Drying and Hardening Internal Repair Mortar can be used for repairs to the subfloor/stairs etc. up to 50mm thick, 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 165, 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.

MIXING

ARDEX AF 165 is ready for use, but for optimum performance the adhesive should be thoroughly mixed to ensure the even dispersion of polymers before application.

APPLICATION

The installation area and subfloor should be kept at the appropriate temperature as specified by the floorcovering manufacturer and the relevant clauses of BS 8203. These temperatures need to be maintained 48 hours prior to installation, during installation, and 48 hours after installation.

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ARDEX AF 165 should be applied evenly to the suitably prepared substrate using the appropriate serrated trowel, held at approximately a 60 degree angle to the subfloor to maximise coverage and avoid forming pools of adhesive.

Floorcoverings should be applied directly into the wet adhesive on absorbent backgrounds after the airing time, between 10-20 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 30 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 flooring with a 68kg roller and/or a smoothing tool.

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

Some vinyl 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; if comment cannot be found then the guidance given in BS 8203 and BS 8204 should be followed.

Thermal cycling of the subfloor will require raising the temperature of the substrate slowly, usually 5°C a day, to full operating temperature, held for a defined period, and slowly brought back down, usually 5°C a day, so that any shrinkage that is likely to take place occurs before the floorcovering is installed.

If 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.

If moisture testing is not required, or after the tests are completed, the heating system should be stabilised to room temperature, but not below 15°C, before installing the floorcovering.

The surface of the substrate can then be repaired/smoothed with the appropriate ARDEX product and allowed to dry.

The floorcovering should be allowed to acclimatise to the substrate temperature before installation with ARDEX AF 165.

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. 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 165 is suitable for use over underfloor heating systems and is classified as high temperature resistant. The surface floor temperature must not exceed 30°C. Consult the floorcovering manufacturer for detailed guidance.

For areas subjected to prolonged or extreme solar gain, such as southerly facing aspects, consider the use of ARDEX AF 2575 or ARDEX AF 2525 Heavy Duty Adhesives.

CLEANING

Remove spills or seepage through joints with a cloth moistened with water before the adhesive dries. Aggressive cleaning agents should only be used with the permission of the floorcovering manufacturer.

PRECAUTIONS

ARDEX AF 165 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 Health & Safety Data Sheets for further information. For the latest technical or health and safety information on this product, consult the current product or health and safety data sheet.

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.

CV Flooring



TKB A1 - Consumption
approx. 200-250 gr/m²

Homogenous and Heterogeneous PVC Sheet Floorcoverings,
CV Floorcoverings



TKB A2 - Consumption
approx. 250-300 gr/m²

Technical Data According to ARDEX Quality Standards

Material content:	Acrylate Dispersion.
Consumption:	Refer to the relevant table
Airing time*:	Between 10 - 20 minutes
Open time*:	Approximately 40 minutes
Working time*:	Approximately 30 minutes

*Environmental and atmospheric conditions can alter these values. High temperatures and lower relative humidity shorten these times, while lower temperatures and higher relative humidity extend them. The specified values are measured in the laboratory at +18°C and 65% relative humidity

Underfloor heating:	Suitable
Castor chairs:	Suitable
EMICODE:	EC1 ^{PLUS} Very low emission
Packaging:	Net 14 kg bucket

Storage and shelf life: In its original sealed packaging and under dry, non-freezing conditions between +5 and 30°C, the product can be stored for approximately 12 months from the date indicated on the packaging. Once opened, the packaging should be tightly closed, and the product should be consumed promptly.

The information provided in this document is based on current scientific and practical data and may vary depending on site conditions and use of product. ARDEX is only obliged to ensure the quality of the product at the foreseen standard conditions. ARDEX does not authorize anyone, including ARDEX Representatives, to make any statements which supersede, modify or supplement the information provided on its printed literature or package labels without written confirmation from the Ardex Technical Service Department. This document is valid until future revisions.