



ARDEX AF 145

Pressure Sensitive Vinyl and Rubber Adhesive

Dry bond or wet set pressure sensitive adhesive

Suitable for installing all types of vinyl floorcoverings

Suitable for installing all types of rubber floorcoverings up to 4mm in thickness

Excellent early and long term adhesive strength

Can receive vinyl sheet dry bond up to 80 minutes after airing

Suitable for use over underfloor heating systems

Excellent resistance to plasticiser migration

Covers up to 56m²



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ARDEX AF 145

Pressure Sensitive Vinyl and Rubber Adhesive

DESCRIPTION

ARDEX AF 145 is a water-based, solvent free, low odour, pressure sensitive and wet set acrylic emulsion-based floorcovering adhesive. ARDEX AF 145 has a reduced airing, and long open time, and also a high bond strength with permanent high tack. It is protected from biodegradation and has excellent resistance to plasticiser migration.

ARDEX AF 145 meets the requirement guidelines for the EMICODE licence 'EC1 PLUS', achieving the lowest possible emission limits.

USE

ARDEX AF 145 is ideal for installing all types of vinyl floorcoverings and rubber floorcoverings up to 4mm in thickness. ARDEX AF 145 is suitable to be used with all ARDEX levelling and smoothing compounds in both commercial and domestic locations.

PRIMING

Priming is not required, however, on highly absorbent surfaces it can be advantageous to prime with ARDEX P 51 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 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 NZS/AS 1884:2013. Any dust should be removed using suitable vacuum equipment, prior to applying ARDEX AF 145, 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 NA or ARDEX K 15 Micro.

ARDEX A 45 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 145, 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 145 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 recommended temperature as specified by the floorcovering manufacturer and the relevant clauses of NZS/AS 1884:2013. These temperatures need to be maintained 48 hours prior to installation, during installation, and 48 hours after installation.

ARDEX AF 145 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.

PRESSURE SENSITIVE - DRY BOND

When used as a pressure sensitive/dry bond adhesive, ARDEX AF 145 should be applied to the subfloor and left to dry to a full tack, at least 20-40 minutes, depending on subfloor absorbency and ambient conditions.

For optimum performance, place the floorcovering into the adhesive within 30 minutes for LVT and 80 minutes for sheet vinyl, taking care to ensure correct alignment, as repositioning can be difficult. Roll the floorcovering using roller and/or use a smoothing tool. Roll from side to side first, then end to end, to ensure full overall contact with the adhesive. Remove any air pockets with an appropriate tool before rolling.

Where there is a delay between applying the adhesive and the installation of the floorcovering, any contamination, e.g. by other trades, must be prevented from affecting the applied ARDEX AF 145.

WET SET

Floorcoverings can be applied directly into the wet adhesive on absorbent backgrounds after the airing time, between 5-20 minutes, depending on ambient conditions. Note: for rubber floors only wet bonding is recommended.

When used as a wet set adhesive, only apply sufficient adhesive that can be covered within the working time, up to 45 minutes on an absorbent subfloor. 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 roller as above.

Some vinyl floorcoverings may benefit from further rolling/smoothing. Heat welding should only commence once the adhesive has dried sufficiently. 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 NZS/AS 1884:2013 should be followed.

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 145.

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 145 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 northerly facing aspects, consider the use of ARDEX AF 180 MS 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.

PACKAGING

ARDEX AF 145 is packed in plastic tubs 14kg 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.

STORAGE

ARDEX AF 145 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.

PRECAUTIONS

ARDEX AF 145 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.co.nz

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WORDING AND TERMINOLOGY -

PRESSURE SENSITIVE

Airing Time

The time the adhesive must be left open before applying the floorcovering. Between 20-40 minutes*.

Working Time

The time in which the adhesive can receive the floorcovering. Up to 30 minutes for LVT, and 80 minutes for sheet vinyl, after the initial airing time.

Open Time

The combination of airing and working time. Up to 100 minutes.

WET SET

Airing Time

The time the adhesive must be left open before applying the floorcovering. Between 5-20 minutes*.

Working Time

The time in which the adhesive can receive the floorcovering, after the initial airing time. Up to 45 minutes*.

Open Time

The combination of airing and working time. Up to 50 minutes.

*depending on the absorbency of the subfloor and ambient conditions.

The guidance from the floorcovering manufacturer should always be followed if different from the information contained in this Technical Data Sheet.

Toll Free Technical Services:
1800 224 070 (Australia)
0800 227 339 (New Zealand)

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 New Zealand & Australian Standards, our instructions and recommendations and only for the uses they are intended. 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 effect 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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| Flooring Type | Trowel Size | Coverage |
|---|---|------------------------|
| CV Flooring | A1  | Up to 56m ² |
| Vinyl Sheet/LVT/CV/Homogenous and Heterogeneous Rubber Flooring up to 4mm thick | A2  | Up to 47m ² |