



---

# ARDEX AF 145 C

## Pressure Sensitive Vinyl Adhesive

---

### Area of application :

Suitable for Varies of PVC and LVT.

Suitable for Rubber Floor Covering up to 4mm.

Suitable for Wall Covering Application.

### Produce feature :

Suitable for underfloor heating

Suitable for exposure to castor wheels



SH Office:  
ARDEX (SHANGHAI) CO., LTD  
4F, Building 2, No. 481,  
Guiping Rd.,  
Shanghai, China  
TEL: 86-21 64161800  
P.C.: 200233

# ARDEX 145 C

Edit: 2023-03-15

## Pressure Sensitive Vinyl Adhesive

### DESCRIPTION

ARDEX AF 145 C is a water-based, solvent free, low odour, pressure sensitive and wet bond acrylic emulsion-based floorcovering adhesive. The long open time makes the ARDEX AF 145 C offers excellent workability and produces a high bond strength with permanent high tack.

### PRIMING

Priming is not required.

However, on highly absorbent surfaces it can be advantageous to prime with ARDEX P 60.

### 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 Technical Services.

The subfloor must be hard, clean, free from barrier materials, sound and smooth in accordance with the relevant Standard. Any dust should be removed using suitable vacuum equipment, prior to applying ARDEX AF 145 C, as it can affect both the coverage and performance of the adhesive.

The defects such as honeycomb pitting, nail holes etc. can be repaired with ARDEX A 45 C and ARDEX Feather Finish.

Uneven subfloors should be levelled with the appropriate ARDEX Self-Leveling Underlayment.

### APPLICATION

The installation area and subfloor should comply with relevant clauses. It need to be maintained 48 hours prior to installation, during installation, and 48 hours after installation.

ARDEX AF 145 C 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 maximize coverage and avoid forming pools of adhesive.

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

### PRESSURE SENSITIVE

When used as a pressure sensitive adhesive, ARDEX AF 145 C 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 70 minutes for PVC. Roll the floorcovering using a 68kg 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 a cork board or rubbing tool before rolling.

The application of ARDEX AF 145 C must be prevented if there is a delay between applying the adhesive and the installation of the floorcovering or any contaminations on surface.

### WET BOND

Floorcoverings can be applied directly into the wet adhesive on absorbent backgrounds after the airing time, between 5-20 minutes, depending on ambient conditions.

When used as a wet bond 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.

Only wet bond is recommended for rubber floors, and other application methods have the risk of reducing adhesion performance.

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 as above.

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.

### WALL COVERING

Wall covering can be used after the manufacturer verification test.

### UNDERFLOOR HEATING

Underfloor heating systems should be commissioned in accordance with the heating manufacturer's instructions; if comment cannot be found then the general guidance 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 stabilized to room temperature, but not below 15°C, before installing the floorcovering.

The floorcovering should be allowed to acclimatize to the substrate temperature before installation with ARDEX AF 145 C. 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 145 C 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 2510.

### CLEANING

Remove spills or seepage through joints with a cloth moistened with water before the adhesive dries.

### PACKAGING

ARDEX AF 145 C is packed in plastic tubs 20kg net weight.

# ARDEX AF 145 C

## Pressure Sensitive Vinyl Adhesive

### 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.

A1	250-280g/m <sup>2</sup>	CV
A2	300-350g/m <sup>2</sup>	PVC CV Rubber Floor
B1	400-450g/m <sup>2</sup>	PVC/PUR

### STORAGE

ARDEX AF 145 C has a shelf life of not less than 12 months if stored in good conditions, between 5°C and 30°C, in the original unopened container.

### PRECAUTIONS

ARDEX AF 145 C 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.

### TECHNICAL DATA

#### PRESSURE SENSITIVE

Airing Time:

Between 20-40minutes\*

Working Time:

The time in which the adhesive can receive the floorcovering. Up to 30 minutes for LVT, and 70 minutes for PVC after the initial airing time.

Open Time

The combination of airing and working time.

Up to 100 minutes.

#### WET BOND

Airing Time:

Between 5-20minutes

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.