



## PRODUCT DATA SHEET



**Karndean**  
Designflooring

# Universal Adhesive

### Description:

A resin-free fibre-reinforced wet-bed high-temperature dispersion adhesive for use indoors.

It's perfect for bonding design flooring products on most absorbent surface, as long as it's level, absorbent, and sound.

It's easy to apply, has good open time and "grab", and reduces residual indentation for all round better results.



### Applications:

- Design flooring
- LVT flooring
- Level, absorbent, sound surfaces
- Where heavy foot traffic is expected, such as high street retail, aged care, offices, and around the home
- Where castor chairs are used (EN 12 529)
- Warm water underfloor heating systems

### Main Features and Benefits:

- Good shear resistance
- Good grab
- Odourless throughout application
- Solvent free
- Very low VOC emissions, helping to create a healthy and safe environment for you to work in

Karndean Universal Adhesive meets EMICODE ECI Plus/very low emission

### Composition:

Our adhesive is made from polystyrene polyacrylate dispersions, thickeners, wetting and defoaming agents, preservatives, fibres, mineral fillers and water.

### Technical Data:

Packaging:	plastic drum
Pack size:	5 lt or 15 lt
Shelf life:	12 months
Colour:	cream white
Consumption:	280 g/m <sup>2</sup>
Minimum working temperature:	15 °C / 59 °F on floor
Ideal working temperature:	18 – 26°C / 64 – 79°F on floor
Open time for tiles / planks:	5 minutes*
Set for traffic:	after 24 hours*
Final strength:	after 3 days*

\*At 20 °C / 68 °F and 65 % relative humidity.

### Karndean Designflooring

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## Substrate Preparation:

Make sure the substrate is sound, level, dry, free from cracks and free of materials that might affect adhesion. Test the substrate in accordance with applicable standards and notices. Please report deficiencies should any occur. Then, thoroughly vacuum the surface, and apply primer and smoothing compound that is appropriate for the substrate, the covering and its use. We recommend a minimum of 3 mm of a suitable smoothing compound over all types of substrate. Make sure primers and smoothing compounds are allowed to dry thoroughly. If you are using other manufacturers' products, please refer to their Product Data Sheets.

## Application:

1. Apply adhesive evenly to substrate with an A2 trowel blade. Apply only as much adhesive as you can cover within the working time (max. 20 minutes) to ensure good transfer to the backing of the covering. The adhesive ridge has to be flattened. Fit the Designflooring within the stated working time, and use a hand roller to ensure the adhesive is fully transferred to the back of the product.  
After 20 minutes, roll the floor in both directions (using a 68 kg roller or hand roller) paying particular attention to the edges.
2. Remove uncured adhesive with warm water on a damp cloth. Avoid excessive use of water.

## Consumption Data:

Covering type/ Backing type	Notch trowel	Consumption*
PVC design coverings PVC coverings	A 2	ca. 280 g/m <sup>2</sup>

\*At 20°C/68°F and 65% relative humidity.

## Important Notes:

- You can store our Universal Adhesive for 12 months if you keep it in the original container. Make sure you store it in a moderate or cool area. Protect against frost. Always reseal packaging tightly and fully. Use the contents as quickly as possible. Let the adhesive get to room temperature before use.

- Low temperatures and high humidity levels extend the fitting, setting and drying times, while high temperatures and low humidity levels shorten them. The best conditions are: 18 – 26 °C/64 – 79 °F, ground temperature above 15 °C/59 °F and relative humidity below 75 %.
- Moist substrates can result in secondary emissions and odours, so only use on well dried-out substrates. Thorough drying of the levelling compound is essential.
- Avoid fitting directly to old adhesive residues. Make sure you first prime and smooth with a self-levelling compound over 3 mm thick.
- The DesignFlooring must be properly acclimatized to both the current and future conditions.
- If you encounter extreme temperatures (e.g. solar radiation), intense mechanical stress (e.g. fort lift truck, etc.) or high humidity, you should consider using an epoxy adhesive. If in doubt please contact us for technical advice.
- The following standards, regulations and publications are applicable and especially recommended:
  - British Standards BS8203: 2001 "Installation of resilient floorcoverings"
  - British Standards BS8204-7: 2003 "Screeds, bases and in-situ floorings. Pumpable self-smoothing screeds."
  - DIN 18 365 "Working with floor coverings"
  - TKB specification sheet "Assessment and preparation of surfaces for floor covering and wood flooring installation"
  - BEB specification sheet "Assessment and preparation of surfaces"
  - TKB specification sheet "Adhesion of PVC floor coverings"
  - TKB specification sheet "Adhesion of elastomeric floor coverings"

## Making Sure You and Your Working Environment Are Protected:

Our Universal Adhesive is solvent-free. It requires no special protection or precautions in general use, but there are still things we would recommend to keep you, others and your working space, safe.

It is important that the substrate, primer and smoothing compound are dry, which will give you the best possible indoor air quality for installing floorcoverings. We recommend ventilation of the work area and the use of barrier cream. Avoid eating, drinking or smoking during the installation. Please keep product out of the reach of children. If you get adhesive in your eyes or on your skin, wash immediately with plenty of water. Do not allow dispersal into drains, sewers or ground. Rinse tools with water and soap immediately after use.

Please be advised you follow the standards in accordance with the working conditions. Please be advised this product contains isothiazolinones.

**Hotline for allergy information 01322 619898.**

## Disposal:

Where possible, collect all product residues and re-use where you can. Don't allow dispersal into drains, sewers or ground. Plastic containers are recyclable if they are empty, scraped and drip-free.

Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction or Household Waste.

The above information is based on our experience and careful investigations. The variety of associated materials and different construction and working conditions cannot be individually checked or influenced by us. The quality of your work depends, therefore, on your own professional judgement and product usage. If in doubt, conduct a small test or obtain technical advice. Follow the installation recommendations provided by Karndean. The publication of this Product Data Sheet invalidates all previous Product Information.

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