



# Ultrabond Eco 4 LVT

## Fibre-reinforced high temperature LVT adhesive



### WHERE TO USE

Highly shear resistant, hard set, wet-bed, high temperature dispersion adhesive, specific for LVT floorings.

For use on floors and walls in interior applications.

Suitable on:

- level, absorbent substrates;
- underfloor heating systems.

Improved by the addition of fibres, therefore particularly suitable for heavy wear use in domestic, commercial and industrial locations, e.g hospitals, shopping centres, airports, etc.).

It can be used for the installation of flooring subjected to stresses from chair castors according to EN 12529.

### Some application examples

Use **Ultrabond Eco 4 LVT** for bonding:

- LVT floors, tiles and planks.

Suitable also for bonding:

- homogeneous, heterogeneous, CV and multilayer PVC floor tiles;
- semi-flexible quartz vinyl floor tiles (VCT);
- synthetic back linoleum tiles;
- polyolefin-based and PUR floor coverings in tiles.

### TECHNICAL CHARACTERISTICS

**Ultrabond Eco 4 LVT** is a solvent free, fibre-reinforced

synthetic polymer-based adhesive in water dispersion, formulated in a ready to use light beige paste.

Specifically developed for LVT in tiles and planks, it is characterised by a fast and strong initial grab and a rapid set, as well as a rigid and cohesive final film, which gives the floor covering a very good dimensional stability.

Product properties:

- very easy to apply;
- low to no waiting time;
- excellent wetting even with difficult coverings;
- very good peel strength;
- highly shear resistant;
- very good dimensional stability;
- prevents open joints;
- exposure to castor wheels in accordance with EN 12529;
- solvent free;
- not inflammable;
- EMICODE EC1 Plus (very low emission);
- Blauer Engel - RAL UZ 113;

TECHNICAL DATA (typical values)	
<b>PRODUCT IDENTITY</b>	
Consistency:	creamy paste
Colour:	pale beige
Density (g/cm <sup>3</sup> ):	1.20
pH:	7.5
- EMICODE: - Blauer Engel:	EC1 Plus - very low emissions RAL-UZ 113 For further information please refer to the Material Safety Data Sheet
<b>APPLICATION DATA (a +23°C - 50% U.R.)</b>	
Application temperature range:	from +15°C to +35°C
Waiting time:	0-10 minutes
Open time:	20-30 minutes
Set to light foot traffic:	3-5 hours
Ready for use:	24-48 hours
<b>FINAL PERFORMANCE DATA</b>	
PEEL 90° adhesion test according to EN 1372 (N/mm): - homogeneous PVC: - heterogeneous PVC:	in compliance with EN 14259

- harmless to the health of the installer and the end-user.

#### RECOMMENDATIONS

- Install in recommended temperatures, normally between +15°C and +35°C.
- Do not install on substrates not protected from rising damp.
- Use **Adesilex G19** or **Adesilex G20** in the event of extreme temperatures due to solar radiation, intense mechanical stress by lift truck, forklift, etc. or in areas with the presence of water (canteens, kitchens, showers, balconies, open porches, etc.).
- In case of multilayer cork planks with PVC backing, use **Ultrabond Eco 310**.

#### APPLICATION PROCEDURE

##### Preparation of the substrate

Substrates must be dry, level, sound, mechanically strong, free of dust, loose particles, cracks, paints, wax, oil, rust, traces of gypsum or other products that can interfere with bonding.

On non-absorbent substrates, apply

smoothing compound to a minimum thickness of 2 mm.

Commonly, the moisture content must be max 2%-2,5% for cementitious substrates, max. 0,5% for gypsum or anhydrite-based substrates.

*The regulations of each country must be strictly followed.*

It is essential to make sure there is no rising damp present. Un-bonded screeds laid over light-weight concrete or over insulation and screeds laid directly onto earth must be separated by a vapour barrier to prevent rising damp.

To repair cracks in the substrate, consolidate and waterproof screeds, form new fast-drying screeds and level uneven substrates, please refer to the relevant technical documentation or contact the Technical Services Department.

##### Acclimatisation

Before starting the installation, make sure that the floor or wall covering and the substrate are acclimatised to the recommended temperatures and R.H.

##### Spreading the adhesive

**Ultrabond Eco 4 LVT** is ready to use and

does not need any preparation. Before using, stir the adhesive in the bucket. Apply the adhesive evenly to the substrate with a suitable notched trowel.

### Installing the flooring

*Follow the manufacturer's instructions*

Leave a waiting time according to the application quantity, climatic conditions, substrate absorbency and type of covering. Only apply as much adhesive as can be covered within the open time (20-30 minutes) and with good transfer to the backing of the covering.

Lay in covering with short waiting time into the still wet adhesive bed: the adhesive ridges have to be impressed.

Take care to avoid air pockets and carefully rub the floor covering down to ensure good adhesive transfer to the backing.

After some minutes installing the floor covering, it is always necessary to carefully roll it down again or to firmly rub it down.

**Note:** *waiting and open time may vary depending on temperature, relative humidity and absorbency of the substrate. They will be shorter at higher temperatures and lower humidity, but longer at lower temperatures, higher humidity and with low-absorbent substrates.*

### Cleaning

While still wet, **Ultrabond Eco 4 LVT** can be cleaned from floor coverings, tools, hands and clothings with water. When dry, clean with alcohol or a suitable solvent.

### CONSUMPTION

Consumption varies with uniformity of substrate, the back of the flooring and type of trowel used.

MAPEI trowel no. 1: approx. 250-300 g/m<sup>2</sup>  
Notch TKB A1/A2: approx. 200-300 g/m<sup>2</sup>

### PACKAGING

**Ultrabond Eco 4 LVT** is available in 16 kg and 5 kg drums.

### STORAGE

Under normal conditions, **Ultrabond Eco 4 LVT** is stable for at least 12 months in its original sealed packaging. Avoid prolonged exposure to frost.

### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Ultrabond Eco 4 LVT** is not considered dangerous according to the current regulation regarding the classification of mixtures. It is recommended to wear protective gloves and goggles and to take the usual precautions for the handling of chemicals. Keep out of reach of children.

Ensure good ventilation during and after application and drying.

Avoid eating, drinking or smoking while processing this product.

In case of contact with eyes or skin rinse immediately with plenty of water.

Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.

Clean tools with soap and water immediately after use.

Only properly emptied containers may be recycled. Dried product residues can be disposed of as normal household waste. Product contains: MIT/BIT (1:1) and CIT/MIT (3:1). For information for allergic people, please call at +39/02/37673.1.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

### WARNING

*Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.*

Please refer to the current version of the **Technical Data Sheet**, available from our website [www.mapei.com](http://www.mapei.com)



This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.



"Der Blaue Engel" is a German mark of ecological quality used to identify products which respect the environment, contractors and end users. MAPEI products carrying this logo have been tested according to strict criteria defined by the German standard RAL-UZ 113 and, because they are all solvent-free with very low emission of volatile organic compounds, also offer advantages for the environment and public wellbeing.



**Our Commitment To The Environment**  
MAPEI products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

**All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)**



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4 LVT**



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