

ULTRABOND ECO 4 LVT

Fibre-reinforced high temperature LVT adhesive



www.blauer-engel.de/uz113



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:

- rigid LVT and SPC;
- 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.
- multilayer cork plank tiles with PVC backing.

TECHNICAL CHARACTERISTICS

Ultrabond Eco 4 LVT is a 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 initial grab 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;
- not inflammable;
- EMI CODE EC1 Plus (very low emission).
- Blauer Engel DE-UZ 113.

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**, **Adesilex G20** or **Ultrabond Eco MS 4 LVT** 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 V90 Plus**.
- **Ultrabond Eco MS 4 LVT** will be replaced soon by **Ultrabond Eco MS1**. You can already change the name.
- Among the adhesives to be used in case of exposure to extreme temperatures you can also add **Ultrabond Eco MS 4LVT Wall&Floor** (that will soon replace **Ultrabond Eco MS 4LVT Wall**).

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 3 mm.

The moisture content must comply with the local regulations.

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/m²

Notch TKB A1/A2: approx. 200-300 g/m²

PACKAGING

Ultrabond Eco 4 LVT is available in a 15 kg bucket.

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

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.co.uk.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	creamy paste
Colour:	pale beige
Density (g/cm ³):	1.20
pH:	7.5
- EMICODE: - Blauer Engel:	EC1 Plus - very low emissions DE-UZ 113
APPLICATION DATA (a +23°C - 50% U.R.)	
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
FINAL PERFORMANCE DATA	
PEEL 90° adhesion test according to ISO 22631 (N/mm): – homogeneous PVC: – heterogeneous PVC: – LVT:	in compliance with ISO 22636

WARNING

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that the end users satisfy themselves that the product and conditions are suitable for the envisaged application.

No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification.

End users should ensure that our latest product data and safety information sheets have been consulted prior to use. Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.co.uk

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.co.uk

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