ULTRABOND ECO 4LVT

Fibre-reinforced high-temperature LVT adhesive





www.blauer-engel.de/uz113

BENEFITS AND FEATURES

- Very easy to apply
- For interiors, including walls and floors
- Excellent wetting of the back of coverings
- Provides excellent dimensional stability
- Prevents the opening of joints
- Excellent adhesion to peel
- Suitable for heavy static and dynamic loads and wheelchair traffic

CO_2e FULLY OFFSET PRODUCTS

Residual Greenhouse Gas emissions measured throughout the life cycle of this product using Life Cycle Assessment (LCA) methodology, verified and certified with EPDs, have been offset for the year 2026 through the acquisition of carbon credits in support of forestry protection projects. For more details on emission calculations and offsetting projects, visit mapei.com

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 4LVT** 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 planks tiles with PVC backing.

TECHNICAL CHARACTERISTICS

Ultrabond Eco 4LVT 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 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;
- not inflammable;
- EMICODE 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 reactive adhesives such as **Adesilex G19**, **Adesilex G20** or **Ultrabond Eco MS 4LVT Wall&Floor** 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, blaconies, open porches, etc.).

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.

The moisture content must the local regulations comply with.

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 4LVT 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 4LVT** 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^2

Notch TKB A1/A2: approx. 200-300 g/m^2

PACKAGING

Ultrabond Eco 4LVT is available in 14 kg and 5 kg drums.

STORAGE

Under normal conditions, **Ultrabond Eco 4LVT** 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.com.

Keep out of the reach of children.
Ensure good ventilation during use and drying.
Do not eat, drink or smoke when using this product.
In case of contact with skin or eyes, rinse immediately with plenty of water.
Do not allow product to reach sewage system, water course or soil.
Clean tools with soap and water immediately after use.
Give only empty containers to recycling. Dried product residues may be disposed of as domestic waste if allowed by local regulations.
Product contains BIT and CIT/MIT (3:1). For information for allergic people, please call: +39 02 66101029.

The product contains:

Water, mineral and fibre fillers, binders, plasticizer, additive, preservatives (Vdl-RL 01/May 2019).

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	
Consistency:	creamy paste
Colour:	pale beige
Density:	1.20 g/cm^3
pH:	7.5
– EMICODE:	EC1 Plus - very low emissions
– Blauer Engel:	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

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

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.com.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

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