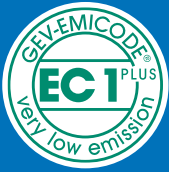




Ultrabond Eco 4 LVT



Fibre-reinforced LVT adhesive



WHERE TO USE

Bonding internal LVT floors.

Some application examples

Ultrabond Eco 4 LVT is used for bonding internal floors in:

- LVT;
- PVC and semi-flexible vinyl tiles;

ON

all kinds of conventional absorbent substrates stable in the presence of humidity normally used in the building industry.

TECHNICAL CHARACTERISTICS

Ultrabond Eco 4 LVT is a solvent-free, fibre-reinforced synthetic polymer-based adhesive in water dispersion. It is available in paste form which is easy to spread by trowel, and is in particular used to bond LVT floor-covering materials.

Ultrabond Eco 4 LVT stands out because it is extremely easy to spread and has a very high initial bond, which fixes the flooring fast to the substrate.

When hardened, **Ultrabond Eco 4 LVT** forms a tough, flexible film which allows for an excellent bond on all kinds of substrates. It may also be used for floors subject to heavy pedestrian use, the passage of wheelchairs and for heated floors.

Ultrabond Eco 4 LVT is non-flammable, is EC1 Plus and Blauer Engel certified. The adhesive is not a health hazard for either floor-layers or for those who use the rooms where it has been applied. It may also be stored without taking any particular precautions.

RECOMMENDATIONS

- Lay floors at the temperature recommended, normally between +15°C and +35°C.
- Do not lay floors on substrates with no protection for rising damp (honeycomb substrates with no vapour barrier, damp walls, etc.).
- In areas with the presence of water (canteen kitchens, showers, balconies, open porches, etc.) use **Ultrabond Eco 571 2K**, **Adesilex G19** or **Adesilex G20**.
- In case of multilayer cork planks with PVC backing, use **Ultrabond Eco 310**.

APPLICATION PROCEDURE

Preparation of the substrate

Substrates must be flat, dry, absorbent, resistant to compressive and tensile stresses, free of dust, loose particles, cracks, breaks, paint, wax, oil, rust and traces of gypsum and products which may compromise the bond.

In all cases, local norms and standards for each single country must be adhered to.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	creamy paste
Colour:	light beige
Density (g/cm ³):	1.25
pH:	7.5
Dry solids content (%):	70
Brookfield viscosity (mPa·s):	90,000 (6 rotor - 5 rpm)
EMICODE:	EC1 Plus - very low emission
APPLICATION DATA (at +23°C - 50% R.H.)	
Application temperature range:	from +15°C to +35°C
Waiting time:	10 minutes
Open time:	maximum 30-40 minutes
Set to light foot traffic:	3-4 hours
Ready for use:	48 hours
FINAL PERFORMANCE DATA	
Resistance to moisture:	good
Resistance to ageing:	excellent
Resistance to solvents and oils:	good
Resistance to temperature:	excellent
Resistance to wheeled chair stress:	suitable (according to DIN EN 12529)
Underfloor heating systems:	suitable

As a general rule, the humidity level must be as follows: a maximum of 2.5-3% for cementitious substrates and 0.5% for gypsum or anhydrite substrates and in all cases, never more than the level recommended by the local norms and by the manufacturer of the floor covering. It is important to check that there is no rising damp.

Floating screeds installed on lightened sublayers or insulating material and screeds laid directly on the ground must be isolated by laying a vapour barrier.

In the case of disjointed substrates or substrates which are not sufficiently smooth, apply a skimming layer to create a suitable laying surface.

To repair cracks in the substrate, consolidate screeds, install quick-drying screeds and to level off the laying bed, refer to the catalogues which illustrate the various ranges of MAPEI products for the preparation of substrates or contact the MAPEI Technical Services Department.

Acclimatization

Before laying the floor, make sure the covering, the adhesive and the substrate have been acclimatized at the prescribed temperature.

The floor covering must be removed from its packaging a few hours before laying.

Spreading the product

Mix the adhesive well in its drum before

using. Spread the quantity of **Ultrabond Eco 4 LVT** required on the substrate using a suitable notched trowel so that the adhesive is spread in an even coat.

Laying floors

Follow the instructions and indications of the manufacturer of the floor covering when laying.

The floor must be applied on **Ultrabond Eco 4 LVT** after the recommended waiting time (approx 10 minutes at +23°C) but without exceeding the open time (30-40 minutes at +23°C).

The tiles must be rolled immediately after laying the floor covering, starting from the centre and working towards the edges, to make sure they are perfectly buttered and to remove all air bubbles.

If the floor covering is very thin, make sure the massaging phase also eliminates streaks in the adhesive which could show through on the surface.

The floor may be stepped on with care after 3-4 hours (according to the surrounding temperature and the absorption of the substrate). Floors may be put into service after approximately 48 hours.

Cleaning

While still fresh, **Ultrabond Eco 4 LVT** may be removed easily from floors, floor covering, tools, hands and clothing with water. Once dry, it must be removed with alcohol or **Pulicol 2000**.

CONSUMPTION

Consumption varies according to the flatness of the substrate, the type of backing material on the coating and the type of trowel used. MAPEI N° 1 trowel: 0.25-0.35 kg/m².

PACKAGING

Ultrabond Eco 4 LVT is available in 16 kg drums.

STORAGE

Ultrabond Eco 4 LVT remains stable for at least 12 months under normal environmental conditions in its original, sealed packaging.

Protect **Ultrabond Eco 4 LVT** from freezing weather.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Ultrabond Eco 4 LVT is not considered dangerous according to the European regulation regarding the classification of mixtures. It is recommended to wear gloves and goggles and to take the usual precautions taken for the handling of chemicals.

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



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



**Ultrabond Eco
4 LVT**



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