



Ultrabond Eco S Lite

Lightweight one-component solvent-free according to TRGS 610 silylated polymer-based adhesive with very low emission of volatile organic compounds



WHERE TO USE

Suitable for bonding all types of pre-finished or pre-sanded laminated wooden flooring and medium size planks of solid wood up to 15 cm wide on cementitious screeds, screeds made from **Mapecem**, **Mapecem Pronto**, **Topcem**, **Topcem Pronto** and similar products, old wooden, ceramic, marble, terrazzo, etc. floors and anhydrite screeds. Suitable for heated floors.

TECHNICAL CHARACTERISTICS

Ultrabond Eco S Lite is a lightweight, one-component, silylated polymer-based adhesive containing a high amount of resin and microbeads to make the product lighter. A bag of **Ultrabond Eco S lite** weighs less 4 kg than the same volume of traditional adhesive (15 kg). This makes the product easier to handle, lowers transport costs and increases its yield by 30% compared with other one-component MAPEI adhesives.

Ultrabond Eco S Lite contains no water, solvent (according to TRGS 610), amines or epoxy resin and has very low emission of volatile organic compounds (EMICODE EC1 Plus).

Ultrabond Eco S Lite is produced using technology developed in the MAPEI laboratories and has the following characteristics:

- ready-to-use one-component product, no catalyser or mixing required. If stored correctly leftovers of the product may be used again at a later date;
- may also be used by floor-layers allergic to epoxy and epoxy-polyurethane products;

- certified by GEV as a product with very low emission of volatile organic compounds (EMICODE EC1 Plus);
- no hazard or warning signs or labels are required on the packaging;
- easy to apply with excellent rib stability;
- solvent-free according to TRGS 610;
- easy to remove from hands and pre-finished wood;
- compatible with **Ultracoat Oil** and water-based undercoats and varnishes from the **Ultracoat** line.

RECOMMENDATIONS

- Before installing flooring, make sure all rooms are fitted with windows or other suitable systems to seal them off.
- The level of moisture in the screed must comply with current norms and regulations for installing wood and with the levels indicated in the Technical Data Sheet of the wooden flooring.
- If the substrate is not completely dry, or if the amount of moisture is higher than the specified level, it is recommended to apply a coat of suitable waterproofing primer such as **Eco Prim PU 1K**, **Primer MF**, **Primer MF EC Plus**, etc.
- If there is a risk of rising damp, a vapour barrier must be laid before installing the screed.

- Transport, store and use the product at temperature between +10°C to +35°C.
- When transported over long distances, thermally insulated containers may be required.

APPLICATION PROCEDURE

Substrate preparation

The substrate must be carefully checked to verify its condition and to make sure it is suitable for installing wooden flooring in compliance with local national standards. In all cases, the substrate must be dry, flat and strong. The surface must be free of dust, crumbling areas, traces of oil, paint, etc. The level of moisture in the screed must be measured with a carbide hygrometer.

Old ceramic, marble, etc. floors: must be clean and all traces of oil must be completely removed before applying the adhesive. The adhesive must only be applied once the surface is completely dry.

Wooden floors: make sure the planks of the old floor are well-bonded to the substrate. Remove any varnish or wax from the surface of the floor with sandpaper down to a bare wood surface and remove all dust with a vacuum cleaner. The flooring may then be installed.

Anhydrite substrates: make sure all the instructions of the screed manufacturer have been followed. Always check whether the screed needs to be sanded and primed. MAPEI recommends sanding and priming with **Eco Prim PU 1K**, **Eco Prim PU 1K Turbo**, **Primer MF** and **Primer MF EC Plus**. MAPEI cannot be held responsible if the manufacturer's instructions have not been adhered to. If there are any queries, please contact MAPEI Technical Services.

Spreading the adhesive

Spread the adhesive on the substrate with a MAPEI spreader for wood. To reduce the noise from footsteps, apply enough adhesive to butter the back of all the flooring.

When installing flooring with **Mapesonic CR**, apply the adhesive with a 2 mm notched spreader. Do not apply too much pressure on the surface of the sheets and until the adhesive has completely set.

24-48 hours after laying the sheets, the new flooring may be installed using a n. 4 MAPEI trowel. To reduce the noise from footsteps as much as possible, apply enough adhesive to butter the back of all the flooring.

Under normal conditions (+23°C and 50% R.H.) wooden flooring must be installed within around 35 minutes. If adhesive from a previously opened tub is used, remove the lid, remove the film formed on the surface of the adhesive and apply as above. The surface skin helps conserving the remaining quantity of the product.

Installation of wooden flooring

Prior to installation, the wooden flooring must be stored in the original packaging supplied by the manufacturer in a dry, condensation and vapour-free area protected against bad weather and must not be left standing directly on the floor. **The level of moisture in the wood must be within the limits specified by the manufacturer in the product's Technical Data Sheet.**

When laying wooden flooring, press down firmly to make sure the back is well buttered. The special rheological properties of **Ultrabond Eco S Lite** make the adjustment of the flooring after installation much easier. Leave a 1 cm-wide joint around the edge of the floor and around columns or other features/elements passing through the floor. Make sure the adhesive does not spread into the joints between the planks otherwise it could stain the surface.

SET TO FOOT TRAFFIC

Floors set to foot traffic after approximately 12 hours.

SANDING

The floor may be sanded after 3 days.

Cleaning

Remove **Ultrabond Eco S Lite** while still wet with **Cleaner L** or with a specific product. Once set, it must be removed mechanically or with **Pulicol 2000**.

CONSUMPTION

800 g/m².

PACKAGING

11 kg plastic drums.

STORAGE

12 months in its original sealed packaging stored under normal conditions.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Ultrabond Eco S Lite S is not considered hazardous according to current norms and guidelines regarding the classification of mixtures. It is recommended to use protective gloves and goggles and to take the usual precautions for handling chemicals. For further and complete information about the safe use of our product please refer to the latest version of our Safety Data Sheet.

Keep out of the reach of children. Make sure rooms are well ventilated when applying the adhesive and while it is drying. Do not eat, drink or smoke while applying the product. If the product comes into contact with the eyes or skin, wash immediately with plenty of clean water. Make sure the product does not accidentally enter drains or water courses. Make sure it does not infiltrate into the subsoil/ground. Only empty containers may be recycled. Remains of the product may be disposed of with domestic waste once dry. Does not contain preservatives. Methanol separates from the product while hardening. Use protective gloves. For information

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency: creamy paste

Colour: grey

Density (g/cm³): 1.20

Dry solids content (%): 100

Brookfield viscosity (mPa·s): 30.000 ± 5.000

EMICODE: EC1 Plus - very low emission

APPLICATION DATA (at +23°C and 50% R.H.)

Application temperature: +10°C to +35°C

Open time (formation of skin): 30 mins.

Adjustment time: 90 mins.

Set to foot traffic: 12 hours

Sanding (internal areas): 3 days

FINAL PERFORMANCE

**Elongation
(after 28 days at +23°C and 50% R.H.) (%):** 120

**Shore A hardness
(after 28 days at +23°C and 50% R.H.):** 50

**Wood-concrete adhesion strength
(after 28 days at +23°C and 50% R.H.) (N/mm²):** 1.6

**Wood-ceramic adhesion strength
(after 28 days at +23°C and 50% R.H.) (N/mm²):** 1.5

Ultrabond Eco S Lite

in case of allergic reactions please call
+39/02/37673.1.

The product contains:

binders, inorganic fillers, crosslinking agent,
catalyst, plasticizers, UV stabilizer, drying
agent (Vdl-RL 01/June 2004).

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



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.



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

**All relevant references
for the product are available
upon request and from
www.mapei.com**



BUILDING THE FUTURE