



Ultrabond Eco 520

Strong initial bond linoleum adhesive



WHERE TO USE

Very tough, thread drawing water based adhesive, for linoleum in sheets and panels up to 4 mm thick as well as for cork-linoleum and corkment underlay.

For internal use only and for bonding onto absorbent substrates (also with warm water underfloor heating).

Suitable for:

- normal and high stresses in residential, commercial and industrial sectors (e.g. in hospitals, shopping centers, airports, etc.);
- stresses from chair castors according to EN 12529;
- installing resilient wall coatings.

TECHNICAL CHARACTERISTICS

Ultrabond Eco 520 is a solvent free synthetic polymer based single-coat adhesive in water dispersion, easy to trowel, formulated in a ready-to-use light beige paste.

Ultrabond Eco 520 is not flammable, contains no toxic substances and has very low emission levels of volatile organic compounds (EMICODE EC1 Plus). Therefore, there is no health risk for floor layers and final users, and it may be stored safely without taking any particular precautions.

Ultrabond Eco 520 is characterized by its strong initial tack, as well as long open time (20-30').

It's functional and convenient in application and gives the applicator reliability when laying linoleum due to thread drawing. Areas of sagging, rolls ends, projecting edges or severe arching of the coverings can be laid securely and without problems.

RECOMMENDATIONS

- Install at normally prescribed temperatures (between +15°C and +35°C) and relative humidity (below 65%). Laying, setting and drying times will be increased by low temperatures and high humidity, and reduced by high temperatures and low humidity.
- Do not use on damp substrates or substrates subject to possible rising damp.

APPLICATION PROCEDURE

Preparing the substrate

Substrates must be dry, absorbent, flat, sound, mechanically strong without cracks, free of dust, loose particles, paint, wax, oil, rust, gypsum residues and other materials which could interfere with bonding.

Check moisture content throughout the entire thickness of the substrate with an electric or carbide hygrometer, keeping in mind that the former gives only approximate values. It is essential to make sure there is no rising damp present.

The maximum acceptable humidity level is as follows: as a rough guide, a maximum of 2.5-3% for cementitious screeds, 0.5% for gypsum or anhydrite screeds, and in all cases, never more than the level recommended by the local norms and by the manufacturer of floor coverings.

Unbonded screeds over light-weight concrete or over an insulation layer or screeds laid directly onto earth must be provided with a vapour barrier to prevent rising damp.

Ultrabond Eco 520



Applying Ultrabond Eco 520



Installing linoleum sheets with natural jute back

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:	creamy paste
Colour:	light beige
Density (g/cm ³):	1.30
pH:	8
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:	10-20 min.
Open time:	20-30 minutes
Set to light foot traffic:	3-5 hours
Ready for use:	24-48 hours

FINAL PERFORMANCE DATA

Peel bonding at 90° to EN 1372 (N/mm): - linoleum:	in compliance with EN 14259
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To repair cracks in the substrate, consolidate screeds, form fast-drying screeds and level uneven substrates, it is recommended to refer to the section in the MAPEI catalogue concerning the preparation of substrates or contact the Technical Services Department.

Spreading the adhesive

Apply the **Ultrabond Eco 520** evenly on the substrate with a notched trowel. Select a trowel size that enables the adhesive to cover the back of the floor covering completely. Only apply as much adhesive over an area that can be applied with floor covering within 15-20 minutes.

Installing the flooring

Follow the flooring manufacturer's installation instructions. Make sure the flooring and the substrate are acclimatised to the recommended temperature before installing.

Furthermore, observe the generally accepted rules of the trade and the technology for the laying of floor coverings of the relevant applicable national standards (e.g. ISO, EN, DIN, BS, OE, SIS, UNI, ecc.).

The drying time of **Ultrabond Eco 520** varies with the absorbency of the substrate and environmental conditions (temperature and humidity), from 10 to 20 minutes.

The installation must be carried out within the open time of **Ultrabond Eco 520** (20-30 minutes), i.e. ensuring the adhesive is transferred onto the back of the flooring.

Press the surface of the flooring with a wooden trowel or a roller immediately after laying, moving from the centre out to the edges in order to ensure complete transfer of the adhesive and eliminate air bubbles.

Repeat the procedure if needed after some minutes.

Cleaning

Whilst still wet, traces of **Ultrabond Eco 520** can be removed with water. When dry, use alcohol or **Pulicol 2000**.

CONSUMPTION

Consumption varies with the uniformity of the substrate, the back of the flooring and the trowel used, from 0.30 to 0.45 kg/m² (TKB B1, B2 or MAPEI nr. 2).

PACKAGING

Ultrabond Eco 520 is available in 16 kg drums.

STORAGE

Under normal conditions **Ultrabond Eco 520** 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 520 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.

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 (Gesellschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.



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



Rolling linoleum flooring



**Ultrabond
Eco 520**



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268-6-2016 (GB)