



MAPEI

Ultrabond Eco 520



Adhesive in water dispersion with a high initial bond and very low emissions of volatile organic compounds (VOC), specifically formulated for linoleum floors



WHERE TO USE

Use **Ultrabond Eco 520** for bonding natural jute-back linoleum flooring internally on all types of absorbent and moisture-stable substrates normally used in building.

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 non flammable, contains no toxic substances and has very low emission levels of volatile organic compounds (EMICODE EC1). 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 has a high initial bond, but has a long open time which permits laying to be carried out up to 30-40 minutes after applying the adhesive.

Ultrabond Eco 520 was specifically developed for installing linoleum on flooring subjected to heavy traffic and areas where wheeled chairs are present.

RECOMMENDATIONS

- Install at normally prescribed temperatures between +15°C and +35°C.
- 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 manufacturer of the finishing material.

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

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 30-40 minutes.

Ultrabond Eco 520



Applying
Ultrabond Eco 520



Installing linoleum
sheets with natural
jute back

TECHNICAL DATA (typical values)

PRODUCT IDENTIFICATION

Consistency:	creamy paste
Colour:	light beige
Density (g/cm³):	1.40
pH:	8
Dry solids content (%):	78
Brookfield viscosity (mPa·s):	50,000 (C rotor - 5 rpm)
Storage:	24 months in original sealed packing. Avoid prolonged exposure to frost
Hazard classification according to EC 1999/45:	none. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packing and Safety Data Sheet
EMICODE:	EC1 - very low emission
Customs class:	3506 91 00

APPLICATION DATA at +23°C - 50% R.H.

Application temperature range:	from +15°C to +35°C
Waiting time:	from 0 to 20 minutes
Open time:	30-40 minutes
Set to light foot traffic:	after approx. 3 hours
Ready for use:	after at least 24 hours

FINAL PERFORMANCE DATA

Resistance to moisture:	very good
Resistance to ageing:	excellent
Resistance to solvents and oils:	fair
Resistance to acids and alkalis:	good
Resistance to wheeled chair stress:	good
Underfloor heating systems:	suitable
PEEL bonding at 90° to EN 1372 (N/mm): - linoleum:	1.5

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.

The drying time of **Ultrabond Eco 520** varies with the absorbency of the substrate and environmental conditions (temperature and humidity) from 0 to 20 minutes.

The installation must be executed within the open time of **Ultrabond Eco 520** (30-40 minutes), i.e. when the adhesive is transferred onto the back of the flooring.

Before laying deformed linoleum or linoleum with high memory, let the adhesive dry as long as possible.

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.

Cleaning

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

CONSUMPTION

Consumption varies with the uniformity of the substrate, the back of the flooring and the trowel used, from 0.25 to 0.40 kg/m².

PACKAGING

Ultrabond Eco 520 is available in 16-kg drums.

STORAGE

Under normal conditions **Ultrabond Eco 520** is stable for at least 24 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 norms on the classification of chemical products. It is recommended to take the usual precautions for handling chemical products. The Safety Data Sheet is available on request.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this 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.



Rolling linoleum flooring



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
More than 150 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**

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