

**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.

A British Standard approved test should give a reading of 75% RH or less, if this has not been achieved the use of Mapei Surface Membrane will suppress residual / static moisture in a power floated concrete slab or sand / cement screed, provided that a base dpm has been incorporated.

For gypsum and anhydrite substrates the maximum humidity level should be 0.5% as measured with a carbide hygrometer, and in all cases, no higher than the level recommended by the manufacturer of the floorcovering.

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:	12 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.

The Floorcovering should be rolled with a 68 kg roller immediately after it has been installed, starting from the centre and working towards the edges to ensure the adhesive is transferred to the back of the floorcovering, and any air bubbles removed. If necessary, repeat the rolling operation after a few minutes.

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.

Approximately 55 m² per 15 kg using an A2 Trowel.

PACKAGING

Ultrabond Eco 520 is available in 15 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 norms on the classification of chemical products. It is recommended to take the usual precautions for handling chemical products.

For further and complete information about a safety use of our product please refer to our latest version of the Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

N.B.

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that the end users satisfy themselves that the product and conditions are suitable for the envisaged application.

No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification.

End users should ensure that our latest product data and safety information sheets have been consulted prior to use.

Please refer to the current version of the Technical Data Sheet, available from our web site 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 Verlegwerkstoffe, 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



Rolling linoleum flooring



**Ultrabond
Eco 520**



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