



MAPEI



Ultrabond Eco 540

Adhesive in water dispersion with very low emission of volatile organic compounds (VOC) specifically formulated for linoleum flooring



WHERE TO USE

Use **Ultrabond Eco 540** in interiors for bonding:

- natural or synthetic jute-back linoleum flooring;
- cork linoleum flooring;
- natural cork flooring;
- natural and latex-back coconut fibre flooring;
- natural cork wall coverings

ON

all types of absorbent and moisture-stable substrates normally used in building.

TECHNICAL CHARACTERISTICS

Ultrabond Eco 540 is a solvent-free synthetic polymer-based single-coat adhesive in water dispersion, formulated in a ready-to-use light beige paste.

Ultrabond Eco 540 is not inflammable.

Ultrabond Eco 540's VOC content is practically zero, therefore the adhesive is totally non-toxic for the installer and the end-user of the areas.

Ultrabond Eco 540 is easy to apply, it has very high early grab and has an open time of approx. 20-30 minutes at +23°C and 50% R.H.

Ultrabond Eco 540 was specifically developed for installing linoleum for floorings 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 moisture content must be as follows: 2.5 to 3% for cementitious substrates, 0.5% for gypsum- or anhydrite-based substrates.

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,



Ultrabond Eco 540



Laying linoleum sheets
on cork backing -
Pirelli Skyscraper - Italy

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

| | |
|--------------------------------------|-----------------------------|
| Consistency: | creamy paste |
| Colour: | light beige |
| Density (g/cm³): | 1.20 |
| pH: | 9.5 |
| Dry solids content (%): | 69 |
| Brookfield viscosity (mPa·s): | 50 000 (C rotor - 5 rpm) |
| EMICODE: | EC1 - very low emission |

APPLICATION DATA at +23°C - 50% R.H.

| | |
|---------------------------------------|-------------------------|
| Application temperature range: | from +15°C to +35°C |
| Waiting time: | from 0 to 10 minutes |
| Open time: | 20-30 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 |

it is recommended to refer to the section in the MAPEI catalogue concerning the preparation of substrates or contact the Technical Advisory Department.

Spreading the adhesive

Apply the **Ultrabond Eco 540** evenly on the substrate with a notched trowel. Select a trowel size that enables the adhesive to cover the back of the floor or wall covering completely. Only apply as much adhesive over an area that can be covered with flooring within 15 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.

The drying time of **Ultrabond Eco 540** varies with the absorbency of the substrate and environmental conditions (temperature and humidity) from 0 to 10 minutes.

The installation must be executed within the open time of **Ultrabond Eco 540** (20-30 minutes), i.e. when the adhesive is transferred onto the back of the floorings.

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 540** 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 0.3 to 0.5 kg/m².

PACKAGING

Ultrabond Eco 540 is available in 16-kg drums.

STORAGE

Under normal conditions **Ultrabond Eco 540** 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 540 is not considered dangerous according to the current norms on the classification of mixtures. It is recommended to wear protective gloves and goggles and take the usual precautions for handling chemical products.

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.



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 540**



BUILDING THE FUTURE

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