



# Ultrabond Eco 310

**Rapid-setting adhesive in water dispersion for multi-layered cork floors and coatings**



## WHERE TO USE

Bonding indoor multi-layered cork floors.

## Application examples

**Ultrabond Eco 310** is used for bonding the following on indoor walls and floors:

- multi-layered cork elements (slats and tiles; cork or wooden surface with HPS protection, agglomerate or cork core and PVC backing)

## ON

all kinds of absorbent substrates stable in the presence of humidity normally used in the building industry.

## TECHNICAL CHARACTERISTICS

**Ultrabond Eco 310** is a solvent-free, synthetic polymer-based adhesive in water dispersion. It has a very low emission level of volatile organic compounds and is available in easy-to-spread paste form.

**Ultrabond Eco 310** stands out because it is extremely easy to spread and has a very high initial bond, which avoids the elastic return of the material being laid. When hardened, **Ultrabond Eco 310** forms a tough film which allows for an excellent bond on all kinds of substrate. It may also be used for floors subject to heavy pedestrian use, the passage of wheelchairs and for heating floors.

**Ultrabond Eco 310** is non-flammable and has a very low emission level of volatile organic compounds. Therefore, the adhesive is not considered a health

hazard for those who use the product or for final users of the rooms in which it is applied. It may also be stored without taking particular precautions.

## RECOMMENDATIONS

- Lay floors at the temperature recommended, normally between +15°C and +35°C.
- Do not lay floors on substrates which have no protection against rising damp (honeycomb substrates with no vapour barrier, damp walls, etc.).
- On non-absorbent surfaces, only lay floors after the water in the **Ultrabond Eco 310** has evaporated off and when the film has become transparent.

## APPLICATION PROCEDURE

### Preparation of the substrate

Substrates must be flat, dry, absorbent, resistant to compression and tensile forces, free of dust, loose portions, cracks, paint, wax, oil, rust and traces of gypsum, and products which may compromise the bond.

In all cases, local norms and standards for each single country must be adhered to.

As a general rule, the humidity level must be as follows: maximum 2.5-3% for cementitious substrates and 0.5% for gypsum or anhydrite substrates.

It is important to check that there is no rising damp.

Floating screeds installed on lightened sub-layers or insulating material and screeds laid directly on the ground must be isolated by laying a vapour barrier.

To repair cracks in the substrate, consolidate screeds, install quick-drying screeds and to level off the laying



TECHNICAL DATA (typical values)	
<b>PRODUCT IDENTITY</b>	
Consistency:	creamy paste
Colour:	light beige
Density (kg/m <sup>3</sup> ):	1.25
pH:	8
Dry solids content (%):	66
Brookfield Viscosity (mPa·s):	75,000 (rotor 6 - 5 rpm)
Shelf life:	12 months in its original sealed packaging. Protect from freezing weather
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 packaging and Safety Data Sheet
<b>APPLICATION DATA (at +23°C and 50% R.H.)</b>	
Application temperature range:	from +15°C to +25°C
Waiting time:	0-20 minutes
Open time:	30-40 minutes
Set to foot traffic:	3-4 hours
Waiting time before putting into service:	approx. 24 hours
<b>FINAL PERFORMANCE</b>	
Resistance to humidity:	good
Resistance to ageing:	excellent
Resistance to solvents and oils:	good
Resistance to temperatures:	excellent
Resistance to the passage of wheelchairs:	good
Under-floor heating systems:	suitable
Flexibility:	fair
PEEL 90° bond test according to EN 1372 (N/mm) – homogenous PVC:	> 1.2
PEEL 90° bond test (N/mm <sup>2</sup> ): – multi-layered cork:	> 1.5 (failure of dressing)

bed, please refer to the catalogues which illustrate the various ranges of MAPEI products for the preparation of substrates or contact the Mapei Technical Assistance Department.

In the case of disjointed substrates or substrates which are not sufficiently smooth, apply a skimming layer to make the surface suitable for laying.

### Acclimatisation

Before laying the floor, make sure the laying material, the adhesive and the substrate have been acclimatised at the recommended temperature.

### Spreading the product

Mix the adhesive well in its tub before using. Spread the quantity required of **Ultrabond Eco 310** on the substrate with a suitable notched spatula (according to the substrate and floor, use either a N° 1 or N° 2 MAPEI spatula) so that the adhesive is spread on evenly.

### Laying floors

**Follow the instructions and indications of the manufacturer of the dressing material when laying.**

The floor or dressing must only be applied on the **Ultrabond Eco 310** after the recommended waiting time has passed (within 10-20 minutes at +23°C). Non-absorbent substrates require longer waiting times until almost all the water has evaporated off (the layer of adhesive becomes transparent), but without exceeding the open time (30 minutes at +23°C), that is, when the adhesive is still capable of being transferred onto the back of the dressing material.

The floors and dressings must be well massaged with a wooden spatula or roller immediately after laying, starting from the centre and working towards the edges, to make sure they are perfectly buttered and to remove all air bubbles.

The floor may be stepped on, with care, after 3-4 hours (according to the surrounding temperature and the absorption of the substrate). Floors may be put into service after approximately 48 hours.

### Cleaning

While still fresh, **Ultrabond Eco 310** may be removed easily from floors, dressing materials, tools, hands and clothing with water. Once dry, it must be removed with alcohol or **Pulicol**.

### CONSUMPTION

Consumption varies according to the flatness of the substrate, the type of backing material on the dressing and the type of spatula used.

N° 1 MAPEI spatula: 0.25 kg/m<sup>2</sup>.

N° 2 MAPEI spatula: 0.45 kg/m<sup>2</sup>.

### PACKAGING

**Ultrabond Eco 310** is available in 12 kg tubs.

### STORAGE

**Ultrabond Eco 310** remains stable for at least 12 months under normal environmental conditions in its original, sealed packaging. Protect **Ultrabond Eco** from freezing weather.

### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Ultrabond Eco 310** is not considered hazardous according to current norms and guidelines regarding the classification of mixtures. However, we recommend the use of protective gloves and goggles, and 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.

### 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](http://www.mapei.com)**

**All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)**



**Ultrabond  
Eco 310**



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