



**MAPEI**

# Ultrabond Eco 170



**Adhesive in water dispersion with a strong initial bond, long open time and extremely low emission level of volatile organic compounds (VOC), specially developed for textile floors**



## WHERE TO USE

**Ultrabond Eco 170** is used for bonding textile floor coverings with all types of backing material on all kinds of internal, absorbent substrates normally used in the building industry which are stable in the presence of humidity.

## TECHNICAL CHARACTERISTICS

**Ultrabond Eco 170** is a solvent-free, synthetic polymer-based adhesive in water dispersion supplied in a beige-coloured paste form, which is easy to spread.

**Ultrabond Eco 170** is not inflammable, does not contain toxic substances and has an extremely low emission level of volatile organic compounds (EMICODE EC1), which makes it harmless for those who use the product and for those who use the environments in which it is applied. It may also be stored without taking any particular precautions.

**Ultrabond Eco 170** is an adhesive with a very high initial bond, in spite of its long open time, so that materials may be laid up to 30-40 minutes after application.

**Ultrabond Eco 170** has been developed so that it is particularly suitable for laying textile floor coverings in environments subject to intense traffic and the passage of wheelchairs.

## RECOMMENDATIONS

- Lay floors at the temperature recommended, normally between +15°C and +35°C.

- Do not apply on damp substrates or on substrates subject to rising damp.

## APPLICATION PROCEDURE

### Preparation of the substrate

Substrates must be dry, absorbent, flat, mechanically strong, free of cracks, dust, loose portions, paint, wax, oil, rust and traces of gypsum, and products which may compromise the bond.

Check the humidity content of the screed through its entire thickness with an electric carbide hygrometer. Please note that this instrument supplies only an indication of the humidity content. It is also necessary to make sure the substrate is not subject to rising damp.

The maximum humidity level must be as follows: a maximum of 2-3% for cementitious substrates, 0.5% for gypsum and anhydrite substrates, and in all cases, no higher than the level recommended by the manufacturer of the dressing material. 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 bed, please refer to the section of the MAPEI catalogue regarding the preparation of substrates, or contact the Mapei Technical Assistance Department.

### Spreading on the adhesive

**Ultrabond Eco 170** must be applied in an even layer on the substrate with a suitable notched trowel to

# Ultrabond Eco 170



Applying  
Ultrabond Eco 170



Installing carpet

TECHNICAL DATA (typical values)	
<b>PRODUCT IDENTITY</b>	
<b>Consistency:</b>	creamy paste
<b>Colour:</b>	light beige
<b>Density (g/cm<sup>3</sup>):</b>	1.35
<b>pH:</b>	8
<b>Dry solids content (%):</b>	78
<b>Brookfield Viscosity (mPa·s):</b>	70,000 (rotor 6 - 5 rpm)
<b>Storage:</b>	12 months in its original sealed packaging. Avoid exposing the product to long periods of freezing weather
<b>Hazard classification according to EC 1999/45:</b>	none. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet
<b>EMICODE:</b>	EC 1 - extremely low emission level
<b>Customs class:</b>	3506 91 00
<b>APPLICATION DATA (at +23°C - 50% R.H.)</b>	
<b>Application temperature range:</b>	from +15°C to +35°C
<b>Waiting time:</b>	from 0 to 20 minutes
<b>Open time:</b>	30-40 minutes
<b>Set to light foot traffic:</b>	after approximately 3 hours
<b>Ready for use:</b>	24 hours
<b>FINAL PERFORMANCE</b>	
<b>Resistance to humidity:</b>	very good
<b>Resistance to ageing:</b>	excellent
<b>Resistance to solvents and oils:</b>	poor
<b>Resistance to acids and alkalis:</b>	good
<b>Resistance to passage of wheelchairs:</b>	good
<b>Heated floors:</b>	suitable
<b>PEEL 90° bond test according to EN 1372 (N/mm):</b>	
- carpet with Action-Back® backing:	> 2
- needle-punched:	> 2

guarantee that the adhesive completely butters the backing material. Do not apply adhesive on an area of substrate which may not be dressed with the flooring material within 30-40 minutes.

### Laying the floor

Follow the laying instructions supplied by the manufacturer of the floor covering, and make sure that the floor covering and the substrate are at the recommended temperature before laying.

The waiting time for **Ultrabond Eco 170** varies from 0 to 20 minutes, according to the absorption of the substrate and the surrounding conditions (temperature and humidity).

In all cases, the floor must be laid within the open time of **Ultrabond Eco 170** (30-40 minutes), that is, when the adhesive may still be transferred onto the backing material.

The surface of the material must be massaged with a wooden trowel or roller immediately after laying the floor covering, starting from the centre and working towards the edges, to make sure it is perfectly buttered and to remove all air bubbles.

If necessary, repeat the massaging operation after a few minutes.

### Cleaning

Traces of **Ultrabond Eco 170** may be removed while still fresh 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 flooring material and the type of trowel used, and ranges from 0.25 to 0.40 kg/m<sup>2</sup>.

### PACKAGING

**Ultrabond Eco 170** is available in 16 kg tubs.

### STORAGE

**Ultrabond Eco 170** remains stable for at least 24 months under normal environmental conditions in its original, sealed packaging.

**Ultrabond Eco 170** must be protected from long exposure to freezing weather.

### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Ultrabond Eco 170** is not considered hazardous according to current norms and guidelines regarding the classification of preparations. However, we recommend the use of protective gloves and goggles, and to take the usual precautions for handling chemical products. The Safety Data Sheet is available upon request for professional users.

PRODUCT FOR PROFESSIONAL USE.

### WARNING

*While the indications and guidelines contained in this data sheet correspond to the company's knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications. Therefore, anybody who undertakes to use this product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.*



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

# Ultrabond Eco 170

