



# Ultrabond Eco 170

**High initial grab  
and long open time  
adhesive for  
textile floorings**



## WHERE TO USE

High initial grab and long open time adhesive, suitable for bonding textile floor coverings with all types of backing materials (jute, polypropylene, Action-Bac®, woven, latex, foam, needle-punched, etc.) and needle-punches on all kinds of internal, absorbent substrates, stable in the presence of humidity.

Suitable for:

- static and dynamic loads in residential and commercial areas (offices, hotels, auditoriums, libraries, restaurants, airports, etc);
- stresses from chair castors according to EN 12529;
- underfloor heating systems;
- double-stick installations.

## TECHNICAL CHARACTERISTICS

**Ultrabond Eco 170** is a solvent free, acrylic adhesive in water dispersion, formulated in a ready to use light beige paste.

Product properties:

- very easy to apply;
- excellent wetting;
- high initial grab;
- long open time: particularly suitable for patterned carpets;
- quick leg development;

- high and tough final strength;
- exposure to castor wheels in accordance with DIN EN 12529;
- solvent free;
- non-flammable;
- EMICODE EC1 Plus (very low emission);
- Blauer Engel - RAL UZ 113;
- The product contains: dispersion medium (water), inorganic fillers, polymer dispersion, tackifier, preservatives.
- harmless to the health of the installer and the end-user.

## RECOMMENDATIONS

- Install in recommended temperatures, normally between +15°C and +35°C.
- Do not install on substrates not protected from rising damp.

## APPLICATION PROCEDURE

### Preparing the substrate

Substrates must be dry, absorbent, level, sound, mechanically strong, free of dust, loose particles, cracks, paints, wax, oil, rust, traces of gypsum or other products that can interfere with bonding.

On non-absorbent substrates, apply a smoothing compound to a minimum thickness of 2 mm.

# Ultrabond Eco 170



Applying  
Ultrabond Eco 170



Installing carpet

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

|                               |   |
|-------------------------------|---|
| Consistency:                  | creamy paste  |
| Colour:                       | light beige   |
| Density (g/cm <sup>3</sup> ): | 1.35  |
| pH:                           | 8.5   |
| - EMICODE:<br>- Blauer Engel: | EC1 Plus - very low emission<br>RAL-UZ 113<br>For further information refer to the Material Safety Data Sheet |

### APPLICATION DATA (at +23°C - 50% R.H.)

|                                |                     |
|--------------------------------|---------------------|
| Application temperature range: | from +15°C to +35°C |
| Waiting time:                  | 10-20 min           |
| Open time:                     | 20-30 min           |
| Set to light foot traffic:     | after 3-5 hours     |
| Ready for use:                 | 24-48 hours         |

### FINAL PERFORMANCE

|   |                             |
|---|-----------------------------|
| Peel 90° adhesion test according to EN 1372 (N/mm):<br>- carpet with Action-Bac® backing:<br>- carpet with foam backing:<br>- carpet with latex backing:<br>- needle-punch: | in compliance with EN 14259 |
|---|-----------------------------|

Commonly, the moisture content must be max 2%-2.5% for cementitious substrates, max. 0.5% for gypsum or anhydrite-based substrates.

*Anyway, the regulations of each country must be strictly followed.*

It is essential to make sure there is no rising damp present.

Un-bonded screeds laid over lightweight concrete or over insulation and screeds laid directly onto earth must be separated by a vapour barrier to prevent rising damp. To repair cracks in the substrate, consolidate and waterproof screeds, form new fast-drying screeds and level uneven substrates, please refer to the relevant technical documentation or contact the MAPEI Technical Services Department.

#### Spreading the adhesive

Ultrabond Eco 170 is ready to use and does not need any preparation. Before using, stir the adhesive in the bucket. Apply the adhesive evenly to the substrate with a suitable notched trowel.

#### Installing the flooring

*Follow the manufacturer's instructions as for the laying techniques.*

Leave a waiting time (10-20') according to the application quantity, climatic conditions, substrate absorbency and type of covering. Only apply as much adhesive as can be covered within the open time (20-30') and with good transfer to the backing of the covering.

Lay the floor covering whilst still wet: the adhesive ridges has to be impressed. Take care to avoid air pockets and carefully rub the floor covering down to ensure good adhesive transfer to the backing. Avoid excessive stress at the seams. After some minutes installing the floor covering, it is always necessary to carefully roll it down again or to firmly rub it down.

**Note:** *waiting and open time may vary depending on temperature, relative humidity and absorbency of the substrate. They will be shorter at higher temperatures and lower humidity, but longer at lower temperatures, higher humidity and with low absorbent substrates.*

## Cleaning

While still fresh, **Ultrabond Eco 170** may be removed from floor coverings and tools with water. When dry it can be removed by means of alcohol or **Pulicol 2000**.

## CONSUMPTION

Consumption varies with uniformity of substrate, the back of the flooring and type of trowel used.

MAPEI n. 2 trowel: approx. 350-400 g/m<sup>2</sup>

TKB B1 trowel: approx. 300-350 g/m<sup>2</sup>

TKB B2 trowel: approx. 350-450 g/m<sup>2</sup>

## PACKAGING

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

## STORAGE

Under normal conditions **Ultrabond Eco 170** 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 170** is not considered dangerous according to the current regulations regarding the classification of mixtures. During use, wear protective gloves and goggles and take the usual precautions for handling chemicals.

Keep out of reach of children. Ensure good ventilation during and after application and drying. Avoid eating, drinking or smoking while processing this product. In case of contact with eyes or skin rinse immediately with plenty of water. Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil. Only properly emptied containers may be recycled. Dried product residues can be disposed of as normal household waste. Clean tools with soap and water immediately after use.

**Ultrabond Eco 170** contains: BIT. For information for allergic people, please call at +39/02/37 67 3.1.

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

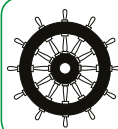
*Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above*

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

## LEGAL NOTICE

**The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at [www.mapei.com](http://www.mapei.com). ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**



This symbol is a conformity mark which prove that the product is suitable for marine equipment in compliance with the **Marine Equipment Directive (MED) 96/98/EC** and subsequent amendments. For the products with this marking, MAPEI is also allowed to affix the U.S Coast Guard approval number as allowed by the "Agreement between the European Community and the United States of America on mutual recognition of certificates of conformity for marine equipment" signed February 27th, 2004.



"Der Blaue Engel" is a German mark of ecological quality used to identify products which respect the environment, contractors and end users. MAPEI products carrying this logo have been tested according to strict criteria defined by the German standard RAL-UZ 113 and, because they are with very low emission of volatile organic compounds, also offer advantages for the environment and public wellbeing.



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



**Ultrabond  
Eco 170**



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