

# 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 an 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 chair castors in accordance with EN 12529;
- non-flammable;
- EMICODE EC1 Plus (very low emission);
- Blauer Engel - DE-UZ 113.

## 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.

Commonly, the moisture content must be the one foreseen by the regulations of each country.

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

Unbonded 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.

Bonding (on absorbent substrates).

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 the type of trowel used.

MAPEI n. 2-3 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. For further and complete information about the safe use of our product, please refer to the latest version of our Safety Data Sheet.

Keep out of the reach of children. Ensure good ventilation during and after use and drying. Do not eat, drink or smoke when using this product. In case of contact with skin or eyes, rinse immediately with plenty of water. Do not allow product to reach sewage system, water course or soil. Clean tools with soap and water immediately after use. Give only empty containers to recycling. Dried product residues may be disposed of as domestic waste. Product contains: BIT. For information for allergic people or the Technical Data Sheet, please call: +39/02/37673.1.

The product contains:

water, mineral fillers, binders, additive, preservatives (VdI-RL 01/June 2018).

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	creamy paste
Colour:	light beige
Density (g/cm <sup>3</sup> ):	1.35

pH:	8.5
– EMI CODE: – Blauer Engel:	EC1 Plus - very low emission DE-UZ 113 For further information refer to the Safety Data Sheet
<b>APPLICATION DATA (at +23°C - 50% R.H.)</b>	
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
<b>FINAL PERFORMANCE</b>	
PEEL 90° adhesion test according to EN 1372 (N/mm): – carpet with Action-Bac® backing: – carpet with foam backing: – carpet with latex backing: – needle-punch:	in compliance with EN 14259



Applying Ultrabond Eco 170



Installing carpet

## 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.

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

**220-8-2021 en (IT)**

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