MAPEI

# Ultrabond Eco 185



## Very low VOC (volatile organic compound) adhesive in water dispersion with high initial tack for textile floor and wall coverings

### WHERE TO USE
Interior installations of tufted and woven carpet, needlepunch and felt-backed vinyl.

### Some application examples
**Ultrabond Eco 185** is used to install:

- natural jute-back or polypropylene jute (Action Bac®) carpet, tufted latex and latex-back carpet;
- needlepunch carpet with natural, latex or latex-foam back;
- needlepunch and carpet wall coverings

**ON**

all normal absorbent and moisture stable substrates used in construction.

### TECHINICAL CHARACTERISTICS
**Ultrabond Eco 185** is a solvent free synthetic polymer-based adhesive in water dispersion, for application in a single coat.

**Ultrabond Eco 185** is a light beige-coloured ready to use paste and is not inflammable.

The VOC content of **Ultrabond Eco 185** is practically zero, therefore it is not harmful to the health of the installer nor to those using the area.

**Ultrabond Eco 185** is easily trowelled and has high initial tack. It has an open time of approx. 30 min. at +23°C and 50% R.H.

Once completely dry, **Ultrabond Eco 185**'s bonding strength makes it perfect for carpet installations with heavy foot and wheeled chair traffic.

### RECOMMENDATIONS
- Do not use for the installation of PVC or carpet with PVC foam back.
- Do not use at temperatures below +15°C or above +35°C.
- Do not use on damp substrates or those subject to rising damp.

### APPLICATION PROCEDURE
#### Preparing the substrate
Substrates must be dry, absorbent, level, sound, mechanically strong and free of cracks, dust, loose particles, grease, oils, paint, wax, rust, traces of gypsum or other materials which may interfere with bonding.

Check for the presence of moisture throughout the whole thickness of the screed using a carbide or electronic hygrometer, remembering that the latter only gives approximate values. It is essential to make sure there is no presence of rising damp.

The maximum moisture content must be as follows: 2.5% to 3% for cement based substrates, 0.5% for gypsum or anhydrite substrates.

# Ultrabond Eco 185



*Carpet laid in the hospitality suite in a sports arena - Ice Palace - Germany*





*Example of carpet laid in a Casino - Schaffhausen Casino - Switzerland*

## TECHNICAL DATA (typical values)

| | |
|---|---|
| **PRODUCT IDENTIFICATION** | |
| **Consistency:** | creamy paste |
| **Colour:** | light beige |
| **Density (g/cm³):** | 1.15 |
| **pH:** | 9.5 |
| **Dry solids content (%):** | 68 |
| **Brookfield viscosity (mPa·s):** | 70,000<br>(C rotor - 5 RPM) |
| **Storage:** | 12 months in original sealed packaging.<br>Avoid prolonged exposure to frost |
| **Hazard classification according to EC 99/45:** | none.<br>Before using refer to the “Safety instructions for preparation and application” paragraph and the information on the packing and Safety Data Sheet |
| **EMICODE:** | EC1 - very low emission |
| **Customs class:** | 3506 91 00 |
| **APPLICATION DATA** | |
| **Application temperature range:** | from +15°C to +35°C |
| **Waiting time at +23°C - 50% R.H.:** | from 0 to 10 minutes |
| **Open time at +23°C - 50% R.H.:** | maximum 30 minutes |
| **Set to light foot traffic at +23°C - 50% R.H.:** | after approx. 2 to 3 hours |
| **Ready for use:** | after approx. 24 hours |
| **FINAL PERFORMANCE DATA** | |
| **Resistance to moisture:** | good |
| **Resistance to ageing:** | excellent |
| **Resistance to solvents and oils:** | fair |
| **Resistance to acids and alkali:** | good |
| **Resistance to wheeled chair stress:** | good |
| **Underfloor heating systems:** | suitable |
| **PEEL adhesion at 90° test according to EN 1372 (N/mm):**<br>**– Action-Bac® carpet:**<br>**– needlepunch:** | <br>>1.5<br>>1.8 |

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

### Acclimatisation
Before installing, make sure that the floor or wall covering and the substrate are acclimatised to the recommended temperature. Floor and wall coverings must be removed from the packaging several hours before installation. The sheets must be freely laid or at least loosened from their rolls to allow acclimatisation and the reduction of tension produced by the packaging.

Follow the manufacturer's instructions for the method of installation.

### Spreading the adhesive
**Ultrabond Eco 185** is applied to the substrate with a notched trowel in sufficient quantity to wet the back of the floor covering completely. Only apply the adhesive to as large an area as can be covered with flooring within 30 minutes.

### Installing the floor covering
**Follow the manufacturer's instructions for the method of installation.**

The waiting time of **Ultrabond Eco 185** varies according to the absorbency of the substrate and environmental conditions (temperature and humidity) from 0 to 10 minutes.

Installation of the flooring, however, must take place within the open time of **Ultrabond Eco 185** (approx. 30 minutes), that is, when the adhesive is transferred onto the back of the flooring.
Non-porous materials or materials that still have irregulations from being rolled or folded will have a better adhesion if laid at the end of the waiting time.
The surface must be pressed with a wooden trowel or roller immediately after installing the flooring, from the centre towards the edges, to provide complete contact and the elimination of any air bubbles.

### Cleaning
While still wet, **Ultrabond Eco 185** can be cleaned from floors or wall coverings, tools, hands and clothing with water. When dry, use alcohol, or **Pulicol**.

### CONSUMPTION
Consumption varies depending on flatness of the substrate and the backing of the floor covering (and therefore on the type of trowel used), from 0.3 to 0.45 kg/m$^2$.

### PACKAGING
**Ultrabond Eco 185** is available in 16 kg buckets.

### STORAGE
Under normal conditions and in original unopened packaging **Ultrabond Eco 185** is stable for at least 12 months. Avoid prolonged exposure to frost.

### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION
**Ultrabond Eco 185** is not considered a dangerous substance according to current standards and regulations regarding the classification of substances. The usual precautions taken when handling chemical products are recommended.
The Safety Data Sheet is available upon request.

PRODUCT FOR PROFESSIONAL USE.

### WARNING
*Although the technical details and recommendations contained in this 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 applications; 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.*

**This symbol is used to identify Mapei products which do not contain solvents, and which give off a low level of volatile organic compounds (VOC); proof of MAPEI's commitment in safeguarding the environment.**

**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 e.V.), an international organisation for controlling the level of emissions from products used for floors.**

**All relevant references of the product are available upon request**





***Example of carpet laid in a hotel corridor - Holiday Inn - England***




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