

# ULTRABOND ECO V4SP

Universal very high performance adhesive for resilient floor coverings



[www.blauer-engel.de/uz113](http://www.blauer-engel.de/uz113)



## WHERE TO USE

Special adhesive in water dispersion for PVC and rubber flooring in commercial project as well as a universal adhesive for all common floor covering types. For use on floors and walls in interior applications.

Suitable as wet-bed adhesive on:

- level, absorbent surfaces;
- underfloor heating systems.

It can be used for:

- static and dynamic loads, including intense loads, in residential, commercial and industrial environments (e.g. in hospitals, shopping centers, airports, etc.);
- stresses from chair castors according to EN 12529.

Also suitable as transitional pressure-sensitive adhesive for bonding dimensionally stable PVC and CV floor coverings on impervious, non-absorbent substrates.

### Some application examples

Use **Ultrabond Eco V4SP** for bonding:

- homogeneous and heterogeneous PVC floor coverings, sheets and tiles;
- CV and multilayer PVC floor coverings;
- rubber floorings (sheets and tiles, including multilayer floor coverings with acoustic or foam underlay).

Suitable also as a universal adhesive for:

- LVT (Luxury Vinyl Tiles);
- semi-flexible vinyl floor tiles (VCT);
- textile floor coverings with all common backings (latex-primed, PVC and polyurethane foam, natural jute and Action-Bac® backed carpets, etc.);
- needle-punch woven flooring also in latex;
- flocked textile flooring;
- linoleum with natural jute backing;
- polyurethane, polyolefin and synthetic back linoleum flooring;
- polyolefin-based and chlorine-free floor coverings;
- PUR floor coverings;
- PVC and rubber wall coverings;
- indoor sport floorings.

## TECHNICAL CHARACTERISTICS

**Ultrabond Eco V4SP** is a synthetic polymer-based adhesive in water dispersion, formulated in a ready to use light beige paste. Due to its particular formulation and extended open time, it can be used as wet-bed adhesive for all kinds of floorings on absorbent substrates, as well as transitional pressure-sensitive adhesive for bonding dimensionally stable floor coverings on impervious, non-absorbent substrates.

Product properties:

- very easy to apply;
- extended open time;
- good initial tack;
- excellent wetting even with difficult coverings;
- very high peel strength;
- good dimensional stability;
- exposure to chair castors in accordance with EN 12529;
- not inflammable;
- 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.
- Use **Adesilex G19** or **Adesilex G20** in the event of extreme temperatures due to solar radiation, intense mechanical stress by lift truck, forklift, etc. or moisture from above (in particular when the floor coverings are not welded or sealed).
- In case of multilayer cork planks with PVC backing, use **Ultrabond Eco 4 LVT**.

## APPLICATION PROCEDURE

### Preparation of the substrate

Substrates must be dry, 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; alternatively, use the product as a “pressure sensitive”, that is, apply the floor covering after the water has evaporated off and the film of adhesive is yellowish-transparent, but still tacky (after approx. 30-40 minutes).

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. Un-bonded screeds laid over light-weight 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 Technical Services Department.

### Acclimatisation

Before starting the installation, make sure that the floor or wall covering and the substrate are acclimatised to the recommended temperatures and R.H.

### Spreading the adhesive

**Ultrabond Eco V4SP** 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.

When installing thin wall coverings, a long nap roller may be used alternatively (ensure the wetting of the backing material).

### Installing the flooring

*Follow the manufacturer's instructions*

Wet bonding (on absorbent substrates).

Leave a waiting time (10-20 minutes) 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 and with good transfer to the backing of the covering. Place the floor covering into the still wet adhesive bed: the adhesive ridges have 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 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.*

Pressure sensitive bonding (only for dimensionally stable floor coverings on impervious substrates).

Allow the adhesive to air-dry until it has taken on a uniformly yellowish-transparent colour (approx. 30-40 minutes); it is recommended to test with a finger to make sure it is touch-dry but still tacky.

When installing impervious sheet floor coverings, the Double Drop technique can be used to reduce the time taken waiting for the adhesive to dry. Lay the floor covering into the wet adhesive, press all over to achieve transfer, then pull it back exposing the adhesive. Leave until the adhesive has dried to a firm tack before replacing the flooring accurately in position.



Pressing down the junction between sheets

## CLEANING

While still wet, **Ultrabond Eco V4SP** can be cleaned from floor coverings, tools, hands and clothings with water. When dry, clean with alcohol or a suitable solvent.

## CONSUMPTION

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

MAPEI trowel no. 1:	approx. 250-300 g/m <sup>2</sup>
MAPEI trowel no. 2:	approx. 350-400 g/m <sup>2</sup>
Roller:	approx. 200 g/m <sup>2</sup>
Notch TKB A1/A2:	approx. 200-300 g/m <sup>2</sup>
Notch TKB B1:	approx. 300-350 g/m <sup>2</sup>
Notch TKB B2:	approx. 350-450 g/m <sup>2</sup>

## PACKAGING

**Ultrabond Eco V4SP** is available in 5 kg and 14 kg drums.

## STORAGE

Under normal conditions, **Ultrabond Eco V4SP** is stable for at least 12 months in its original sealed packaging. Avoid prolonged exposure to frost.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website [www.mapei.com](http://www.mapei.com).

Keep out of 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, any 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 if allowed by local regulations.

Product contains BIT and CIT/MIT (3:1).

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 (VdL-RL 01/June 2018).

PRODUCT FOR PROFESSIONAL USE.

<b>TECHNICAL DATA (typical values)</b>	
<b>PRODUCT IDENTITY</b>	
Consistency:	creamy paste
Colour:	pale beige
Density (g/cm <sup>3</sup> ):	1.20
pH:	7.5
EMICODE: Blauer Engel:	EC1 Plus - very low emissions For further information please refer to the Safety Data Sheet DE-UZ 113
<b>APPLICATION DATA (at +23°C - 50% R.H.)</b>	
Application temperature range:	from +15°C to +35°C
Waiting time:	10-20 minutes (30-40 minutes on non-absorbent substrates)
Open time:	30-40 minutes
Set to light foot traffic:	after 3-5 hours
Ready for use:	24-48 hours
<b>FINAL PERFORMANCE DATA</b>	
PEEL 90° adhesion test according to EN 1372 (N/mm): – homogeneous PVC: – heterogeneous PVC: – smooth rubber: – linoleum: – carpet with Action Bac®:	in compliance with EN 14259



Example of application of PVC sheets - San Joseph Hospital - Germany



Example of PVC laid in a long-stay ward - San Martino Rest Home - Italy



Application of Ultrabond Eco V4SP - San Martino Rest Home - Italy



PVC laid in a hotel suite - Iber Hotel - Portugal

## 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

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*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 force at the time of the MAPEI product installation.*

*The most up-to-date TDS can be downloaded from our website [www.mapei.com](http://www.mapei.com).*

**ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.**

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