



MAPEI

Ultrabond Eco V4 SP



Universal adhesive in water dispersion for resilient floor coverings, with very low emission of volatile organic compounds (VOC) and with extended open time



WHERE TO USE

Internal bonding of all types of vinyl, semi-flexible vinyl, rubber, polyolefines, needlepunch and carpet flooring.

Some application examples

Use **Ultrabond Eco V4 SP** for bonding:

- homogeneous and composition vinyl floor and wall tiles and sheets;
- smooth or studded rubber flooring with smooth back for light interior traffic only;
- polyolefin-based flooring;
- all types of latex-primed, PVC and polyurethane foam, natural jute, and Action Bac® backed carpets;
- needlepunch woven flooring also in latex;
- PVC foam floor covering (cushion floor);
- natural or synthetic felt back PVC flooring;
- semi-flexible vinyl tiles;
- natural and latex-back coconut flooring;
- synthetic-back linoleum flooring;
- PVC-backed cork

ON

all types of absorbent moisture-stable substrates normally used in building.

TECHNICAL CHARACTERISTICS

Ultrabond Eco V4 SP is a solvent-free, synthetic polymer-based single-coat adhesive in water dispersion, formulated in a ready-to-use light beige paste.

Ultrabond Eco V4 SP has an especially extended open time suitable for the installation of resilient floor coverings, provided they are dimensionally stable. It can therefore be used on non-absorbent surfaces as an alternative to polychloroprene contact or epoxypolyurethane adhesives (waiting time: 30 to 40 min. at +23°C).

Ultrabond Eco V4 SP is easy to spread and has an excellent initial grab. After hardening (approx. 24 hours at +23°C) the **Ultrabond Eco V4 SP** film is flexible and strong and can take heavy foot traffic and wheeled chairs.

Ultrabond Eco V4 SP is not inflammable with very low emission of volatile organic compounds (EMICODE EC1), it is therefore absolutely harmless to the health of the installer and the end-user. It can be stored with no particular precautions.

RECOMMENDATIONS

- Install in recommended temperatures, normally between +15°C and +35°C.
- On non-absorbent substrates, install only after the evaporation of the water contained in **Ultrabond Eco V4 SP**.
- Do not install on substrates not protected from rising damp (crawl spaces, damp walls, etc).

Ultrabond Eco V4 SP



Pressing down the junction between sheets



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



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

TECHNICAL DATA (typical values)	
PRODUCT IDENTIFICATION	
Consistency:	creamy paste
Colour:	pale beige
Density (g/cm³):	1.2
pH:	7.5
Dry solids content (%):	76
Brookfield viscosity (mPa·s):	30,000 (6 rotor - 20 rpm)
Storage:	24 months in original sealed packaging. Protect from frost
Hazard classification according to EC/99/45:	none. Before using refer to the "Safety instructions for the preparation and application" paragraph and the information on the packing and Safety Data Sheet
EMICODE:	EC1 - very low emission
Custom class:	3506 91 00
APPLICATION DATA at +23°C - 50% R.H.	
Application temperature range:	from +15°C to +35°C
Waiting time:	approximately 10 to 20 minutes. (30 to 40 minutes on non-absorbent substrates)
Open time:	maximum 40-45 minutes
Set to light foot traffic:	3-5 hours
Ready for use:	48-72 hours
FINAL PERFORMANCE DATA	
Resistance to moisture:	moderate
Resistance to ageing:	excellent
Resistance to solvents and oils:	fair
Resistance to temperature:	excellent
Resistance to wheeled chair stress:	very good
Underfloor heating systems:	suitable
Flexibility:	excellent
PEEL adhesion at 90° according to EN 1372 (N/mm):	
- homogeneous PVC:	> 2
- polyolefin-based wall covering:	1.1
- smooth rubber:	> 2

- Use **Adesilex G19** or **Adesilex G20** in areas subject to frequent wetting (commercial kitchens, showers, balconies, open porches, etc.).
- Use **Adesilex VZ** on edges or corners not sufficiently rounded.

APPLICATION PROCEDURE

Preparing the substrate

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

The regulations of each country must be strictly followed.

The moisture content must be as follows: max. 2.5%-3% for cementitious substrates, 0.5% for gypsum- or anhydrite-based substrates.

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

Unbonded 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 screeds, form fast-drying screeds and level uneven substrates, it is recommended to refer to the MAPEI catalogue or contact the Technical Advisory Department.

Acclimatisation

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

Spreading the adhesive

Before using, stir the adhesive well in the bucket.

Spread enough **Ultrabond Eco V4 SP** on the substrate with a notched trowel (MAPEI trowel No. 1 or 2 depending on the type of substrate and floor) to cover the surface evenly.

Installing the flooring

Follow the manufacturer's instructions.

The floor or wall covering can be installed within the waiting time (between 10 and 20 minutes at +23°C) that is, when **Ultrabond Eco V4 SP** has the proper viscosity and has developed sufficient tack to maintain contact with the substrate. Non-absorbent substrates require a longer waiting time so that all the water can evaporate without going beyond the open time (approximately 40-45 minutes) i.e. when the adhesive is transferred onto the back of the floorings.

Press the surface of the flooring with a wooden trowel or a roller immediately after laying, moving from the centre out to the edges in order to ensure complete transfer of the adhesive and eliminate air bubbles. For very thin wall coverings, make sure that the smoothing eliminates all ridges that would otherwise be visible on the surface.

The floor is set to light foot traffic, with caution, after 3-5 hours (depending on temperature and absorbency of substrate). **Ultrabond Eco V4 SP** dries completely after 48-72 hours.

Cleaning

While still wet, **Ultrabond Eco V4 SP** can be cleaned from floor or wall coverings, tools, hands and clothing with water. When dry, clean with alcohol or **Pulicol**.

CONSUMPTION

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

MAPEI trowel No. 1 0.25 kg/m²

MAPEI trowel No. 2 0.40 kg/m²

PACKAGING

Ultrabond Eco V4 SP is available in 16 and 8 kg plastic buckets.

STORAGE

Under normal conditions **Ultrabond Eco V4 SP** is stable for at least 24 months in its original sealed packaging.

Avoid prolonged exposure to frost.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Ultrabond Eco V4 SP 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 Verlegetwerkstoffe e.V.), an international organisation for controlling the level of emissions from products used for floors.



Application of **Ultrabond Eco V4 SP** - San Martino Rest Home - Italy



PVC laid in a hotel suite - Iber Hotel - Portugal

All relevant references of the product are available upon request

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