

ULTRABOND ECO V4 SP CONDUCTIVE

Light-coloured adhesive in water dispersion with very low emission of volatile organic compounds (VOC) for conductive flooring



WHERE TO USE

Bonding of conductive and static-dissipative vinyl, rubber and textile floor coverings in interiors.

Some application examples

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

- conductive vinyl or static-dissipative flooring in all areas where discharges of static electricity could cause explosions or disturb electrical and electronic equipment, e.g. surgical rooms, chemical laboratories and factories, areas containing electronic instruments, data processing centres, etc.;
- conductive or static-dissipative rubber floors;
- conductive needlepunch and carpet flooring

ON

all absorbent and moisture-stable substrates normally used in building.

TECHNICAL CHARACTERISTICS

Ultrabond Eco V4 SP Conductive is a synthetic resin-based adhesive in water dispersion with special fibres that ensure electrical conductivity, formulated in an easily trowelable light grey paste.

Ultrabond Eco V4 SP Conductive is not inflammable with very low emission of volatile organic compounds (EMICODE EC1 Plus). It can therefore be stored with no special precautions.

Ultrabond Eco V4 SP Conductive has high early grab and after a waiting time that varies from 0 to 10 minutes (at +23°C) is ready for installing any type of rubber or PVC flooring, as long as the substrate is absorbent. The maximum open time is approximately 15 minutes at +23°C.

When dry, after about 24 to 48 hours, the **Ultrabond Eco V4 SP Conductive** film is flexible and bonds strongly with good cohesion.

RECOMMENDATIONS

- To install conductive flooring which does not allow vapour transmission on non-absorbent surfaces use **Adesilex G19 Conductive**.
- Do not use at temperatures below +15°C or above +35°C (follow the floor covering manufacturer's installation instructions).
- Do not use on substrates subject to rising damp.

APPLICATION PROCEDURE

Preparation of the substrate

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

Check moisture content throughout the entire thickness of the substrate with a carbide or electric hygrometer, keeping in mind that the latter gives only approximate values.

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.

Acclimatising

Before installing, make sure that the flooring, the adhesive and the substrate are acclimatised to the recommended temperature.

Several hours before installation the floor covering should be removed from its wrapping and unrolled, or at least loosened, to acclimatise it and reduce the tensions caused by the packaging.

Equipotential earth contact

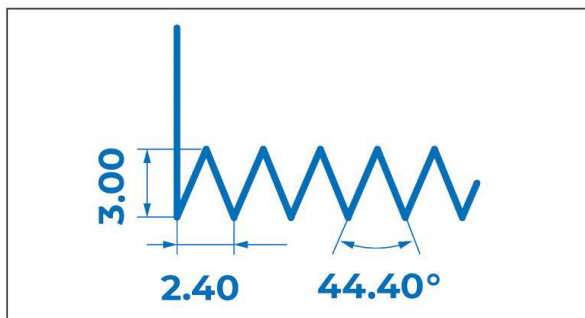
Equipotential earth contact (earthing) should be done in compliance with regulations (CEI, DIN, AMSO, NFPA, ANSI, etc.).

Spread **Ultrabond Eco V4 SP Conductive** to bond the copper strips (0.08 to 0.10 mm thick and 10 to 25 mm wide) of the conductive grid to the substrate. Test the conductivity of the grid before installing the flooring.

Spreading the adhesive

Stir **Ultrabond Eco V4 SP Conductive** in the bucket thoroughly, in order to achieve a homogeneous distribution of the conductive fibres. Then apply it on the substrate evenly with a suitable notched trowel (MAPEI n° 2 type or see the picture of the trowel pictogram) in sufficient quantity as to wet the back of the flooring completely.

Waiting time varies from 0 to 10 minutes at approx. +23°C, depending on the absorbency of the substrate and environmental temperature and humidity.



Installing the floor covering

Follow the manufacturer's installation instructions.

After the waiting time has elapsed, the flooring must be installed within the open time of the adhesive, i.e. maximum 15 minutes, depending on the type of substrate and ambient temperature and humidity.

Press the surface of flooring immediately with a wooden trowel (or similar) or roller from the centre toward the edges in order to ensure total transfer of the adhesive and eliminate air bubbles.

Deformed flooring may need further pressing.

READY FOR USE

The floor is set to light foot traffic in several hours, depending on the temperature, the absorbency of the substrate, and the porosity of the flooring. Complete setting occurs after approx. 24 to 48 hours.

Cleaning

While still wet, **Ultrabond Eco V4 SP Conductive** can be removed from flooring, tools, hands and clothing with water.

Once dry it can be removed with alcohol or with **Pulicol 2000**.

CONSUMPTION

Consumption varies according to the uniformity of the substrate and the back of the floor covering: approx. 0.3 to 0.4 kg/m².

PACKAGING

Ultrabond Eco V4 SP Conductive is available in 16 kg buckets.

STORAGE

Protect from frost during transit and storage.

Avoid prolonged exposure to temperatures below 0°C.

Under normal conditions **Ultrabond Eco V4 SP Conductive** is stable for at least 12 months in its original sealed packaging.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Ultrabond Eco V4 SP Conductive is not hazardous according to the regulations on the classification of mixtures. It is recommended to take the usual precautions for handling chemical products.

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

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	creamy paste
Colour:	light grey
Density (g/cm ³):	1.05
pH:	7.5
Dry solids content (%):	70
Brookfield viscosity (mPa·s):	300.000 (Helipat E - 5 rpm)
- EMI CODE: - Blauer Engel:	EC1 Plus - very low emission DE-UZ 113 For further information refer to the Safety Data Sheet
APPLICATION DATA (at +23°C - 50% R.H.)	
Application temperature range:	from +15°C to +35°C
Waiting time:	from 0 to 10 minutes
Open time:	15 minutes
Set to light foot traffic:	after 3 to 5 hours
Ready for use:	after approx. 24 to 48 hours



Spreading Ultrabond Eco V4 SP Conductive



Laying conductive PVC tiles with Ultrabond Eco V4 SP Conductive

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

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 force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com.

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

All relevant references for the product are available upon request and from www.mapei.com

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