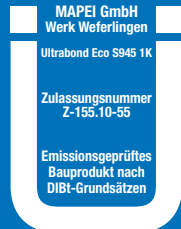




Ultrabond Eco S945 1K



One-component, isocyanate and solvent-free, sililated polymer-based adhesive with a very low emission level of volatile organic compounds (EMICODE EC1 R Plus), for bonding all sizes of pre-finished and medium-sized solid wood parquet



WHERE TO USE

Bonding of all sizes of pre-finished and medium-sized solid wood parquet, such as lamparquet, pin-wheels and jointed industrial grade up to 9 cm wide.

Some application examples

Ultrabond Eco S945 1K is used for bonding multi-layer pre-finished parquet on: cementitious screeds, screeds made using **Mapecem**, **Mapecem Pronto**, **Topcem**, **Topcem Pronto** and similar products, old wooden floors, ceramic, marble, terrazzo, etc. and anhydrite screeds. It is also suitable for heated substrates.

TECHNICAL CHARACTERISTICS

Ultrabond Eco S945 1K is a one-component, sililated polymer-based adhesive without water, solvents, amines, isocyanates and epoxy resin, with an extremely low emission level of volatile organic compounds (EMICODE EC1 R Plus). It is manufactured according to a technology developed in MAPEI's own research laboratories and has the following characteristics:

- one-component, ready-to-use product; no catalyst is required, therefore no mixing. If stored correctly, remaining quantities of the product may be used again at a later date;
- suitable for use by installers who are allergic to epoxy and epoxy-polyurethane products;

- GEV certified, as a product with a very low emission level of volatile organic compounds (EMICODE EC1 R Plus);
- no hazard risks;
- easy to apply with excellent ridge holding;
- 20-30% more yield compared with conventional two-component adhesives, thanks to its low viscosity and free-flowing properties when applied by trowel;
- totally free of solvents and isocyanates;
- easy to remove from hands and pre-finished elements.

RECOMMENDATIONS

- Before installation, the windows should be sealed.
- The humidity level in the screed must be compliant with that prescribed by the current standards for the installation of wood, and as indicated in the technical data sheet for the parquet.
- If the substrate is not thoroughly dried, or if the residual humidity is higher than the level prescribed, we recommend the use of a suitable waterproofing primer, such as **Eco Prim PU 1K**, **Primer MF**, **Primer MF EC Plus**, etc.
- If there is a risk of rising damp, a vapour barrier must be installed before laying the screed.

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- Do not use **Ultrabond Eco S945 1K** if the temperature is lower than +10°C or higher than +35°C.
- Only carry out the installation if the walls and ceiling are thoroughly dried.

APPLICATION PROCEDURE

Preparation of the substrate

The substrate must be checked carefully to assess its condition, and to prepare it for laying parquet.

Cementitious screeds: must be well cured, dry, flat and mechanically strong.

The surface must be free of dust, loose parts, oil, paint, etc.

The level of humidity in the screed must be measured using a carbide hygrometer. To solve problems of residual humidity levels higher than those prescribed for laying, wait until the screed is dry, or apply a suitable waterproofing primer, such as **Eco Prim PU 1K**, **Eco Prim PU 1K Turbo**, **Primer MF**, **Primer MF EC Plus**, **Triblock P**, etc.

Cracks in the substrate must be repaired beforehand with a product such as **Eporip**, **Eporip Turbo**, **Epojet**, etc.

Excessively rough or uneven surfaces should be levelled using a smoothing compound with high mechanical properties, such as **Fiberplan**, **Ultraplan**, **Ultraplan Maxi**, **Nivorapid**, etc., chosen according to the thickness to be installed. Installation may be carried out once it has cured (see the relative product technical data sheet). To install rapid-drying, controlled-shrinkage screeds, use a special MAPEI hydraulic binder: **Mapecem**, which allows for installation after 24 hours, or **Topcem** for installation after 4 days.

Topcem Pronto or **Mapecem Pronto** pre-blended, ready-to-use mortar may be used as an alternative, and wood may be laid after 4 days and 24 hours, respectively.

In the presence of lightening layers or insulation, or in the case of screeds installed directly on the ground, a vapour barrier must be installed to avoid rising damp.

Old floors in ceramic, marble, etc. must be carefully cleaned and degreased before bonding. The adhesive may only be applied once the surface is dry.

Wooden floors: make sure wooden floorboards are rigidly fixed to the substrate. Remove old paint or wax with sandpaper down to the bare wood, and remove all dust. The adhesive may then be applied.

Anhydrite substrates: after sanding down and removal of all residual dust, apply **Eco Prim PU 1K**, **Eco Prim PU 1K Turbo**, **Primer MF**, **Primer MF EC Plus**.

Spreading the adhesive

Spread the adhesive on the substrate using a MAPEI notched trowel for wood. Wood has to be laid within approximately 45 minutes under normal temperature conditions (at

+23°C and 50% R.H.). If left-over adhesive from previous applications is to be used, open the drum, remove the skin formed on the surface of the adhesive and proceed as above. The layer of skin helps to preserve the left-over adhesive.

LAYING PARQUET

The parquet to be laid must be stored in a well-protected, dry area in the original packaging supplied by the manufacturer, it must not be subjected to condensation and must not be stored directly on the ground. **The level of humidity in the wood must comply with the levels indicated by the manufacturer on the technical data sheet.** When laying, press down firmly to make sure the adhesive is well applied to all the wood. The special rheologic properties of **Ultrabond Eco S945 1K** makes final adjustment easy. Leave a joint approximately 1 cm wide around the perimeter of the floor and around columns and other protruding points. Make sure that adhesive does not seep through the joints to avoid dirtying the surface.

SET TO LIGHT FOOT TRAFFIC

Floors may be walked on after approximately 12 hours.

POLISHING

The floor may be polished after 3 days.

Cleaning

Ultrabond Eco S945 1K may be removed using **Cleaner L** or other special cleaning solutions while still fresh. Once hardened, it must be removed mechanically or with **Pulicol 2000**.

CONSUMPTION

800-1200 g/m².

PACKAGING

15 kg contained in plastic drums.

STORAGE

12 months in its original, well-sealed container stored under normal conditions.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Ultrabond Eco S945 is not considered as dangerous according to the European regulation regarding the classification of mixtures. It is however recommended to use gloves, eyes protection and to take the usual precaution taken when handling chemical products are recommended. For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product



Easy opening of the bucket



Easy and fast removal of the sealing film



Excellent keeping and stability of the product

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:	creamy paste
Colour:	beige
Density (g/cm ³):	1.65 ± 0.05
Dry solids content (%):	100
Brookfield viscosity (mPa·s):	33,000 ± 5,000 (rotor 7 - 50 RPM)
EMICODE:	EC1 R Plus - very low emission

APPLICATION DATA (at +23°C and 50% R.H.)

Recommended application temperature range:	from +10°C to +35°C
Open time (formation of surface skin):	45-60 mins
Adjustment time:	1 hour and 45 minutes-2 hours
Set to light foot traffic:	approx. 12 hours

FINAL PERFORMANCE

Shore A hardness (7 days at +23°C):	45
Wood-concrete bond (N/mm ²):	1.2
Wood-ceramic bond (N/mm ²):	1
Elongation at breakage (7 days at +23°C) (%):	100
In service temperature range:	from -20°C to +80°C



Excellent workability and rib stability



Cleaning large format of pre-finished parquet with Cleaner L

Ultrabond Eco S945 1K



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



This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gesellschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.



Our Commitment To The Environment
More than 150 MAPEI products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

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



BUILDING THE FUTURE