

ULTRABOND ECO S955 1K

One-component, solvent-free, (according to TRGS 610) silylated polymer-based adhesive with a very low emission level of volatile organic compounds (EMICODE EC1 Plus), for all types of timber flooring including parquet



WHERE TO USE

Bonding solid wooden floors or pre-finished multi-layered wooden floors of all types and formats.

Some application examples

Ultrabond Eco S955 1K is used for bonding pre-finished wooden floors, lamparquet, slats, floor-boards and all types of parquet on: concrete, engineered screeds made using **Mapecem**, **Mapecem Pronto**, **Topcem Pronto**, and old wooden floors, ceramic, marble, terrazzo etc., and metal. It is also suitable for heated substrates.

Ultrabond Eco S955 can be used for bonding engineered timber to acoustic matting. It can also be used for bonding the acoustic matting to the substrate.

TECHNICAL CHARACTERISTICS

Ultrabond Eco S955 1K is a one-component, silylated polymer-based adhesive without water, solvents (according to TRGS 610), with a very low emission level of volatile organic compounds (EMICODE EC1 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 catalyser is required, therefore no mixing. If stored correctly, remaining quantities of the product may be used again at a later date;
- GEV certified, as a product with a very low emission level of volatile organic compounds (EMICODE EC1 Plus);
- compatible with **Ultracoat** water-based varnishes and bases and the oils from the **Ultracoat** range;
- no hazard or risk statements or symbols;
- 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 (according to TRGS 610);
- easy to remove from pre-finished elements.

RECOMMENDATIONS

- Before installation starts, doors and windows should be installed.
- The humidity level in the substrate 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 dry, or if the residual humidity is higher than the level prescribed, use a moisture vapour barrier, such as **Mapeproof 1K Turbo, Primer MF, or Planiseal MR**.
- If there is a risk of rising damp, a vapour barrier must be installed before laying the screed.
- Do not use **Ultrabond Eco S955 1K** if the temperature is lower than +10°C or higher than +35°C.
- When transported over long distances, thermally insulated containers may be required.

APPLICATION PROCEDURE

Preparation of the substrate

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

- **Concrete and engineered screeds:** must be well cured, dry, flat and mechanically strong. The surface must be free of dust, loose parts, oil, paint, adhesive residues etc. Concrete slabs should be checked for level of residual humidity in accordance with the in situ probe test (ASTM F2170). To solve problems of residual humidity levels higher than those prescribed for laying, wait until the concrete is dry, or apply a suitable moisture vapour barrier, such as **Mapeproof 1K Turbo, Primer MF, or Planiseal MR**.

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

Topcem Pronto or **Mapecem Pronto** pre-blended, ready-to-use mortar may be used as an alternative, wood may be laid after 4 days and 24 hours, respectively. In the presence of lightweight layers or insulation, or in the case of screeds installed directly on the ground, a vapour barrier must be installed to avoid rising damp.

Excessively rough or uneven surfaces should be levelled using a smoothing compound with high mechanical properties, such as **Ultraplan, Ultraplan Eco, Ultraplan Renovation, Ultraplan Maxi, Nivorapid**, etc., chosen according to the thickness and substrate type to be installed. Installation may be carried out once it has cured (see the relevant product technical data sheet). To install engineered screeds, use **Topcem Pronto** or **Mapecem Pronto** pre-blended, ready-to-use mortar where wood may be laid after 4 days and 24 hours, respectively. In the presence of lightweight layers or insulation, or in the case of screeds installed directly on the ground, a polyethylene vapour barrier must be installed to avoid rising damp.

- **Old floors in ceramic, marble, etc.** must have their integrity carefully checked and then thoroughly cleaned and degreased with **Ultracare HD Cleaner** 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.

Spreading the adhesive

Spread the adhesive on the substrate using a MAPEI notched trowel for wood.

Wood has to be laid within approximately 50-60 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 bag, remove any formed skin on the surface of the adhesive and proceed as above. The layer of skin helps to preserve the left-over adhesive.



Easy opening of the bucket



Easy removal of the aluminium bag



Easy cut of aluminium bag



Excellent workability and rib stability



Cleaning large format of pre-finished parquet with Cleaner L

SET TO LIGHT FOOT TRAFFIC

Floors may be walked on after approximately 12 hours.

POLISHING

The floor may be polished after 3 days. Residual adhesive on the surface of the floor may be easily removed by using **Cleaner L**.

CLEANING

Ultrabond Eco S955 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 aluminium bags contained in plastic drums. Boxes containing 20x600 ml soft cartridges.

STORAGE

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

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.au
PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:	creamy paste
Colour:	beige or brown
Density:	1.65 ± 0.05 g/cm ³
Dry solids content:	98%
Brookfield viscosity:	35,000 ± 5,000 mPa·s (rotor 7 - 50 rpm)
EMICODE:	EC1 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):	40 minutes
Adjustment time:	120 minutes
Set to light foot traffic:	approx. 12 hours
Polishing:	after 3 days

FINAL PERFORMANCE

Shore A hardness (7 days at +23°C):	45
Wood - concrete bond:	> 2 N/mm ²
Wood - ceramic bond:	> 2 N/mm ²
Elongation at breakage (7 days at +23°C):	120%
In service temperature range:	from -20°C to +80°C

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.au

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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.au

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