MAPEI

Ultrabond Eco S955 1K

MAPEI GmbH
Werk Weferlingen
Ultrabond Eco S955 1K
Zulassungsnummer Z-155.10-55
Emissionsgeprüftes Bauprodukt nach DIBt-Grundsätzen



One-component, solvent-free, sililated polymer-based adhesive with a very low emission level of volatile organic compounds (EMICODE EC1 R Plus), for all types of parquet

WHERE TO USE

Bonding wooden parquet and all types and formats of pre-finished materials.

Some application examples

Ultrabond Eco S955 1K is used for bonding pre-finished materials, lamparquet, slats, floor-boards and all types of 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 S955 1K is a one-component, sililated polymer-based adhesive without water, solvents, with a very 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 catalyser 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);
- compatible with **Ultracoat** and **Ultracoat Oil** water based varnishes and undercoats;
- no hazard risks and risk and danger 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;
- easy to remove from hands and pre-finished elements.

RECOMMENDATIONS

- Before installation starts, doors and windows should be installed.
- 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**, etc.
- 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.

Ultrabond Eco S955 1K



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 or brown
Density (g/cm³):	1.60
Dry solids content (%):	100
Brookfield viscosity (mPa·s):	37,000 (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):	50-60 mins
Adjustment time:	1 hour and 45 minutes-2 hours
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 (N/mm²):	2
Wood - ceramic bond (N/mm²):	2
Elongation at breakage (7 days at +23°C) (%):	200
In service temperature range:	from -20°C to +80°C

- **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**, **Primer MF**, **Primer EP**, **Primer PU60**, **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 relevant 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, 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 bear wood, and remove all dust. The adhesive may then be applied.

- **Anhydrite substrates:** check and follow the instructions of the manufacturer of the screed. Always check if the screed should be sanded and primed.

MAPEI recommends sanding and priming with E**co Prim PU 1K**, **Eco Prim PU 1K Turbo**, **Primer MF** and **Primer MF EC Plus**. MAPEI declines all responsibilities if all the screed manufacturer's recommendations have not been followed. In case of doubt do not hesitate to contact your local MAPEI's Technical Services Department.

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 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.

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 plastic drums.

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

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION
Ultrabond Eco S955 1K is not considered dangerous according to the current regulations 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.
For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

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

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 Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.

"Der Blaue Engel" is a German mark of ecological quality used to identify products which respect the environment, contractors and end users. MAPEI products carrying this logo have been tested according to strict criteria defined by the German standard RAL-UZ 113 and, because they are with very low emission of volatile organic compounds, also offer advantages for the environment and public wellbeing.

Our Commitment To The Environment
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



Excellent workability and rib stability



Cleaning large format of pre-finished parquet with Cleaner L



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