



Ultrabond S965 1K



One-component, sililate polymer-based adhesive with no solvents or isocyanates for all types of parquet, with extended open time and very low emission level of volatile organic compounds (EMICODE EC1 R Plus)



WHERE TO USE

- Bonding all types and shape of parquet and pre-finished wooden floors.
- Bonding teak on external surfaces.

Some application examples

Ultrabond S965 1K is used for bonding pre-finished elements, lamparquet, slats, planks 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, etc.; anhydrite screeds. Also suitable for heated substrates.

TECHNICAL CHARACTERISTICS

Ultrabond S965 1K is a one-component sililate polymer adhesive with no water, solvents, amines, isocyanates or epoxy resin with a very low emission level of volatile organic compounds (EMICODE EC1 R Plus). The product has been developed in MAPEI's own research laboratories and has the following characteristics:

- ready-to-use one-component product, does not require catalyser and successive mixing. If stored correctly, leftover quantities of the product may be used at a later date;
- extended open time;
- completely free of solvents and isocyanates;
- suitable for floor-layers allergic to epoxy and epoxy-polyurethane products;

- GEV certified as EMICODE EC1 R Plus (very low emission level of volatile organic compounds);
- no hazard or warning labels are required on the packaging;
- easy to apply and excellent straight line hold;
- thanks to its low viscosity and free-flowing capacity when trowel-applied, it has a 20-30% higher yield than traditional two-component products;
- easy to remove from hands and pre-finished wood.

RECOMMENDATIONS

- Before laying, make sure all rooms have suitable windows or other sealing systems.
- The level of humidity in the screed must be according to current norms and regulations for laying wood, indicated in the Technical Data Sheet of the parquet.
- If the substrate is not completely dry, or if the humidity is higher than the recommended level, we recommend applying a coat of suitable waterproofing primer, such as **Eco Prim PU 1K**, **Eco Prim PU 1K Turbo**, **Primer MF**, **Primer MF EC Plus**, etc.
- If there is a risk of rising damp, a vapour barrier must be laid before installing the screed.
- Do not use **Ultrabond S965 1K** at temperatures lower than +10°C or higher than +35°C.

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Pouring the adhesive into the laying area



Spreading the adhesive in an even layer with a Mapei trowel for wood

- Only lay if the walls and floors in the room are completely dry.

APPLICATION PROCEDURE

Preparation of the substrate

The condition of the substrate must be carefully checked to make sure it is suitable for laying parquet.

Cementitious screeds: they must be well-cured, dry, flat and strong. The surface must be free of dust, crumbly portions, traces of oil, paint, etc.

The level of humidity in the screed must be measured with a carbide hygrometer.

If the level of humidity is higher than the recommended limit, wait until the screed is dry or apply a special waterproofing primer, such as **Eco Prim PU 1K**, **Eco Prim PU 1K Turbo**, **Primer MF**, **Primer MF EC Plus**, etc.

Cracks may be repaired with products such as **Eporip**, **Eporip Turbo**, **Epojet**, etc.

Excessively rough or uneven surfaces may be smoothed over with high-strength smoothing and levelling compound, such as **Fiberplan**, **Ultraplan**, **Ultraplan Maxi**, **Nivorapid**, etc. according to the thickness to be applied.

Laying may then be carried out once dry (see Technical Data Sheet). Use MAPEI special hydraulic binders to make quick-drying, controlled-shrinkage screeds. **Mapecem**, which allows floors to be laid after only 24 hours, or **Topcem** after 4 days.

As an alternative, use **Topcem Pronto** or **Mapecem Pronto** pre-blended, ready-to-use mortar which allow wooden floors to be laid after 4 days and 24 hours, respectively. If lightened layers or insulating layers are present, or with screeds installed directly on the ground, lay a suitable vapour barrier to avoid rising damp.

Old ceramic and marble floors must be cleaned and all traces of grease must be completely eliminated before bonding. The adhesive must only be applied once the surface is completely dry.

Wooden floors: make sure the blocks on the old floor are well-bonded to the substrate.

Remove the varnish or wax from the surface of the floor with sandpaper down to a bare wooden surface and remove all dust with a vacuum cleaner. Then lay the floor covering.

Anhydrite substrates: after sanding the substrate, remove all dust with a vacuum cleaner and apply **Eco Prim PU 1K** or **Primer MF**.

Spreading on the adhesive

Apply the adhesive on the substrate using a MAPEI notched trowel for wood. Wood has to be laid within approximately 90 minutes under normal conditions (+23°C, 50% R.H.). If adhesive from a previously opened pack is used, open the packaging and remove the surface skin before application. The surface skin helps conserve the remaining quantity of the product.

LAYING PARQUET

Before laying, the parquet must be stored in a dry, condensation and vapour-free area protected against bad weather in its original

packaging supplied by the manufacturer and must not be left standing directly on the floor. The level of humidity in the wood must be according to the values specified by the manufacturer on the Technical Data Sheet. When laying the parquet, press down firmly to make sure the back is well buttered. The special rheological properties of **Ultrabond S965 1K** makes it particularly easy to adjust parquet after laying. Leave a 1 cm-wide joint around the edge of the floor and around columns or other bodies which pass through the floor. When laying pre-finished parquet, make sure the adhesive does not spread into the joints to avoid it staining the surface.

Laying parquet on external surfaces

Ultrabond S965 1K is suitable for laying parquet on external surfaces, using types of wood and formats which are stable in the presence of humidity.

The substrate must have the same characteristics as an internal substrate. It must be isolated from rising damp and have a slope so rainwater runs off without forming puddles.

We recommend applying the adhesive so that it forms an even layer over the entire surface of the substrate.

SET TO LIGHT FOOT TRAFFIC

Floors set to foot traffic after approximately 12 hours.

POLISHING

The floor may be polished after 3 days. Residues of adhesive on the surface of the pre-finished parquet floor are easy to remove with **Cleaner L**.

Cleaning

Ultrabond S965 1K may be removed from tools while still fresh with **Cleaner L** or a special cleaning product. Once hardened, it must be removed mechanically or with **Pulicol 2000**.

CONSUMPTION

800-1200 g/m².

PACKAGING

15 kg in plastic drums.

STORAGE

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

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Ultrabond S965 1K is not considered hazardous according to current norms and guidelines regarding the classification of mixtures. However, we recommend the use of protective gloves and goggles, and to take the usual precautions for handling chemical products.

For further and complete information about a safety use of our product please refer to our latest version of the Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:	creamy paste
Colour:	beige
Density (kg/m ³):	1.55 ± 0.05
Dry solids content (%):	100
Brookfield Viscosity (mPa·s):	32,000 ± 4,000 (rotor 7 - 50 RPM)
EMICODE:	EC1 R Plus - very low emission level

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

Application temperature range:	from +10°C to +35°C
Open time (formation of skin):	90-100 minutes
Adjustment time:	2 h 30 min. - 3 h
Set to light foot traffic:	approximately 12 hours
Waiting time before sealing:	48 hours
Polishing: – on internal surfaces: – on external surfaces:	3 days after sealing the joints (refer to relative Technical Data Sheet)

FINAL PERFORMANCE

Shore A hardness (7 days at +23°C):	35
Wood-concrete bond strength (N/mm ²):	2
Wood-ceramic bond strength (N/mm ²):	2
Bond on non-absorbent surfaces: – after 10 immersion cycles in water: – after 10 immersion cycles in a heater at +60°C:	12 hours 12 hours
Elongation at failure (%) (7 days at +23°C):	300
In service temperature range:	from -20°C to +80°C



*Laying the flooring
with a suitable gap for
the sealant between
each piece*

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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.



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**



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