ULTRABOND P980 1K

One-component, solvent-free polyurethane adhesive with a very low emission level of volatile organic compounds for bonding pre-finished, multi-layered parquet





BENEFITS AND FEATURES

- One-component, supplied ready to use;
- Ideal for parquet and engineered laminate
- Ideal for installers allergic to epoxy-polyurethane adhesives
- Particularly suitable for heated sublayers
- Solvent and amine-free: certified GEV EC1 PLUS
- 20-30%% higher yield than two-component adhesive
- Odourless
- Excellent rib stability
- Any unused product may be used again at a later date

WHERE TO USE

Bonding pre-finished, multi-layered parquet, pre-assembled work-tops and all shapes and types of multi-layered elements on any kind of substrate. Particularly suitable for heated substrates. Odourless and completely free of solvents and free amines, may be used by installers allergic to epoxy-polyurethane products.

Some application examples

Ultrabond P980 1K is used for bonding pre-finished, multi-layered parquet elements 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. Also suitable for heating substrates.

TECHNICAL CHARACTERISTICS

Ultrabond P980 1K is a one-component, solvent-free polyurethane adhesive with no amines or epoxy resin, with a very low emission level of volatile organic compounds (EMICODE EC1 Plus). The product has been developed in MAPEI's own research laboratories and has the following characteristics:

- completely free of solvents and amines;
- GEV certified as a product with a very low emission level of volatile organic compounds (EMICODE EC1 Plus);

- one-component, supplied ready to use. If stored correctly, leftover quantities of the product may be used at a later date;
- may also be used by floor-layers allergic to epoxy and epoxy-polyurethane products;
- 20-30% higher yield compared with conventional two-component products;
- low viscosity;
- excellent straight-line hold;
- excellent workability.

RECOMMENDATIONS

- Before laying, make sure all rooms have windows or other suitable 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 required level, we recommend applying a coat of 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 laid before installing the screed.
- Do not use **Ultrabond P980 1K** at temperatures lower than +10°C or higher than +25°C.
- Only lay floors 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 must be well-cured, dry, flat and strong.

Use MAPEI special hydraulic binders to make quick-drying, controlled-shrinkage screeds such as **Mapecem,** which allows floors to be laid after only 24 hours, or **Topcem** after 4 days. Other suitable products are **Topcem Pronto** or **Mapecem Pronto** ready-to-use, pre-blended mortars which allow wood to be laid after 4 days and after 24 hours, respectively.

If lightened layers or insulating layers are present on screeds installed directly on the ground, lay a suitable vapour barrier to avoid rising damp.

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 for laying, wait until the screed is dry. As an alternative, if the humidity percentages are compatible with the ones described in the relevant products' technical data sheet, a special waterproofing primer may be applied, such as **Eco Prim PU 1K**, **Eco Prim PU 1K Turbo**, **Primer MF**, **Primer MF EC Plus** or **Triblock P**. Repair any cracks present in the screed with products such as **Eporip**, **Eporip Turbo**, **Epojet**, etc.

Excessively rough or uneven surfaces may be smoothed over with a 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 relative Technical Data Sheet).

Old ceramic, marble, etc.:

floors must be thoroughly cleaned. We also recommend roughing the surface by sanding or applying a coat of **Primer M**.

Wooden floors:

make sure the blocks on the old floor are well-bonded to the substrate. Remove traces of varnish or wax from the surface of the floor with sandpaper down to bare wood and remove all dust with a vacuum cleaner. Then lay and bond the new floor dressing.

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. MAPEI declines all responsibilities if all the

screed manufacturer's recommendations have not been followed; in case of doubt do not hesitate to contact you local MAPEI's Technical Services.

Primer MF, **Primer MF EC Plus**: sand the primer while still fresh and the following day, when they are completely hardened, remove excess sand which has not bonded and start laying and bonding the dressing.

Spreading on the adhesive

Open the aluminium bag contained in the plastic drum and spread the contents on the substrate using a MAPEI notched trowel for wood. The adhesive spread on the substrate must be covered with the wooden floor coating within approximately 110 minutes under normal conditions (+23°C, 50% R.H.). If adhesive from a previously opened pack is used, open the aluminium bag 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 the 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 P980 1K** makes it particularly easy to adjust the bonded elements 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. Make sure the adhesive does not spread into the joints in the slats to avoid staining the surface.

Sealing partially used containers

To store any remaining product after laying has been completed, remove as much air as possible from the aluminium bag to reduce the formation of surface skin and make sure it is well closed. Seal the bag with a plastic tie or similar system. Put the aluminium bag back into its original plastic tub.

SET TO LIGHT FOOT TRAFFIC

Floors set to light foot traffic after approximately 12 hours.

CLEANING

Ultrabond P980 1K may be removed while still fresh with **Cleaner L**. Once hardened, it must be removed mechanically or with **Pulicol 2000.**

CONSUMPTION

800-1000 g/m^2.

PACKAGING

15 kg aluminium bags contained in plastic drums.

STORAGE

Store **Ultrabond P980 1K** for 12 months in its original, well-sealed packaging stored under normal conditions.

When transported over long distances, an insulated container may be needed

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.com

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	
Consistency:	creamy paste
Colour:	beige
Density (g/cm³):	1.45 ± 0.05
Dry solids content (%):	100
Brookfield viscosity (mPa·s):	32,000 ± 4,000 (rotor 7 - 50 rpm)
EMICODE:	EC1 Plus - very low emission

APPLICATION DATA (at +23°C and 50% R.H.)	
Application temperature range:	from +10°C to +25°C
Open time (formation of skin):	110 ± 5 min.
Adjustment time:	3 hours
Set to light foot traffic:	approximately 12 hours
Sanding of pre-assembled elements:	3 days

FINAL PERFORMANCE	
Shore A hardness (7 days at +23°C):	55
Wood-concrete bond strength (N/mm²):	1.8
Wood-ceramic bond strength (N/mm²):	1.3
Elongation at failure (%) (7 days at +23°C):	130
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

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.

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7200-6-2026 en (IT)

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