



MAPEI

Ultrabond P997 1K T

Flexible solvent-free, single component, ready-to-use, thixotropic polyurethane adhesive for laying wooden steps



WHERE TO USE

Bonding and shimming wooden steps and profiles on all types of substrate.

Some application examples

- Laying wooden treads and risers on flights of stairs.
- Bonding wooden baseboards.
- Laying pre-finished, three-layered parquet with beads of adhesive.

TECHNICAL CHARACTERISTICS

Ultrabond P997 1K T is a thixotropic, polyurethane-based, moisture curing adhesive. It is produced using technology developed in MAPEI's own laboratories, and has the following characteristics:

- single component, ready-to-use. Does not require a catalyst and a successive mixing cycle. The product is available in aluminium tubes for easy application with a special extrusion gun;
- thixotropic, may also be applied in thick layers on both horizontal and vertical surfaces;
- the expansion rate of the adhesive is extremely low, even when applied in thick layers, and has no effect on the alignment of the steps which are laid;
- used to form a bead underneath three-layered parquet, it forms a flexible layer which reduces noise caused by footsteps;
- hypo-allergenic, suitable for floor layers allergic to epoxy and epoxy-polyurethane products;

- odourless, does not contain solvents or other substances which give off unpleasant odours.

RECOMMENDATIONS

- Use the product between +10°C and +35°C.
- When applied during particularly dry periods, longer hardening times are required.
- Avoid contact with fresh two-component epoxy-polyurethane adhesives: the product is subject to deterioration.

APPLICATION PROCEDURE

Preparation of the substrate

The substrate must be well cured, dry, flat, strong, clean and free from dust, crumbling areas, residues of oil, paint, etc.

If the residual humidity in cementitious substrate is higher than the levels indicated for laying, once the curing period has terminated, a suitable waterproofing primer such as **Eco Prim PU 1K**, **Primer MF** or **Triblock P** may be applied.

In the case of cementitious substrates which are not solid and sufficiently compacted, they must be consolidated using a primer such as **Eco Prim PU 1K**, **Primer MF**, **Primer PU60**, etc.

After abrading anhydrite screeds and removing all the dust with a vacuum cleaner, they must be primed with **Primer EP**, **Primer MF**, **Primer PU60** or **Eco Prim PU 1K**.

Cracks in the substrate must be repaired beforehand with a product such as **Eporip**, **Eporip Turbo**, **Adesilex PG1**, etc.

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If necessary, excessively rough or uneven surfaces may be evened out using a smoothing compound with high mechanical properties, such as **Ultraplan**, **Ultraplan Eco** etc. The treads and risers on the steps may be evened out using **Nivorapid**.

If the material is to be laid on top of ceramic, marble, etc., clean thoroughly with a degreasing and wax-removal product before bonding.

Metal substrates must be primed with **Primer M**.

If it is to be laid on top of bonded parquet, make sure the slats are well bonded to the substrate. Remove old paint or wax with sandpaper down to the bare wood, and remove all dust.

Application of the product and laying wood

The product is ready-for-use.

Insert the plastic tube in the special extrusion gun. Cut the tip off the tube and attach the nozzle, which must be trimmed according to the section of adhesive to be extruded.

- **Wooden stairs:** extrude the product on the tread by applying beads diagonally, at a pitch of approximately 5-10 cm. For the risers, the product must be extruded and applied on the back of the wooden elements with a similar pattern. While laying, which must be carried out within the open time for **Ultrabond P997 1K T**, press the element firmly to make sure it comes into contact with the adhesive. If the step is not flat or square after being laid, remove the upright or tread while the product is still fresh and extrude a larger drop of adhesive where required.

- **Laying pre-finished, three-layered parquet with beads of adhesive:** extrude the product onto the substrate to form a series of beads at a pitch of 10-25 cm (according to the size and shape of the parquet). While laying, which must be carried out within the open time for **Ultrabond P997 1K T**, press the element lightly to make sure it comes into contact with the adhesive.

Leave a joint approximately 1 cm wide around the perimeter of the floor and around columns and other interruptions.

- **Laying wooden baseboards:** apply **Ultrabond P997 1K T** on the back of the baseboard or, as an alternative, directly on the substrate. The quantity applied must guarantee that there is sufficient adhesive on the two parts to be bonded together. The number of beads to be extruded will depend on the height of the baseboard. Apply the baseboard within the open time period (approximately 100 minutes), by pressing it against the wall.

SET TO LIGHT FOOT TRAFFIC

Floors may be subjected to light foot traffic after approximately 12 hours.

POLISHING

The floor may be polished after 3 days.

Cleaning

Ultrabond P997 1K T can be removed from tools using alcohol or other special cleaning solutions while still fresh. Once hardened, it must be removed mechanically or with **Pulicol**.

Residual adhesive must be removed from pre-finished, varnished parquet immediately, or within a maximum of 4 hours, using **Cleaner L**.

Any remaining stains may be removed up to the day after laying using **Cleaner L** and sawdust.

Hands can be cleaned with **Cleaner H**.

CONSUMPTION

- **Installing wooden stairs:** the yield is ca. 2 m² each soft cartridge (diagonal bead with the distance of 5-10 cm).
- **Installing pre-finished parquet with three layers:** the yield is ca. 4/6 m² each soft cartridge (diagonal bead with the distance of 10-15 cm).
- **Installing wood skirtings:** the yield is ca. 15 ml each soft cartridge.

PACKAGING

Boxes containing 20 aluminium soft cartridges, each one containing 600 c.c.

STORAGE

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

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Ultrabond P997 1K T is harmful and when in contact to the eyes it may cause serious damages.

When inhaled it may provoke sensibilisation in those subjects who are predisposed to it. It is recommended to wear protective gloves, goggles and cloths and to work in well-ventilated areas.

In case of contact with the eyes wash with plenty of water and consult a doctor.

For further information refer to the Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

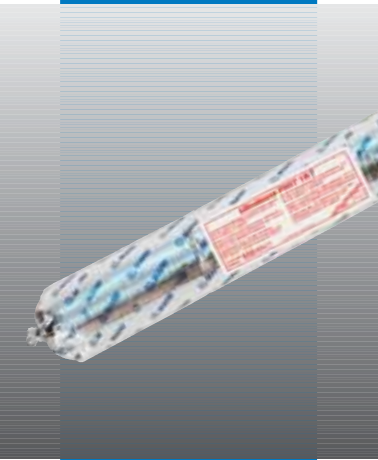
WARNING

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.

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

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	thixotropic paste
Colour:	ochre
Density (g/cm³):	1.32-1.42
Dry solids content (%):	100
Free monomers (%):	< 1
Brookfield viscosity (mPa·s):	1,250,000-1,400,000
Shelf life:	12 months
Hazard classification according to EC 1999/45:	harmful. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet
Customs class:	3506 91 00
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):	ca. 100 mins.
Adjustment time:	3 h
Step-on time:	12 hours
Polishing:	3 days
FINAL PERFORMANCE FIGURES	
Shore A hardness (after 7 days at +23°C):	60
Wood - concrete bond (N/mm²):	2.5
Wood - ceramic bond (N/mm²):	1.8
Elongation at break (7 days at 23°C) (%):	180
In service temperature range:	from -10°C to +70°C

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