



Ultrabond P913 2K

Two-component epoxy-polyurethane adhesive for wooden flooring



WHERE TO USE

Bonding solid, medium-sized traditional parquet, and all types of pre-finished, multi-layered wooden flooring.

Some application examples

Ultrabond P913 2K is used for bonding lamparquet, solid hardwood strips and all types of pre-finished, multi-layered parquet on cementitious substrates; **Mapecem, Mapecem Pronto, Topcem, Topcem Pronto** screeds and similar; existing flooring in wood, ceramic tiles, marble, terrazzo tiles and anhydrite screeds, even heated screeds.

TECHNICAL CHARACTERISTICS

Ultrabond P913 2K is a two-component adhesive. Component A is an epoxy-polyurethane polymer and component B is a hardener in paste form. The consistency of the two pastes is such that mixing is very easy to carry out and errors are easily avoidable. By mixing the two parts together, a uniform coloured product is obtained that can be easily applied with a notched trowel and has an excellent rib stability. After hardening (approximately 24 hours at room temperature) by chemical reaction, **Ultrabond P913 2K** becomes a strong film with high bonding strength to all types of substrates, including those that are non porous (ceramics).

RECOMMENDATIONS

- Before installation, make sure the rooms are provided with windows and door frames and other suitable closures.

- The moisture of the screed must be as detailed in the appropriate national standards.
- If the substrate is not dry or the residual moisture is above that provided, it is recommended to use a suitable waterproofing primer such as **Primer MF, Eco Prim PU 1K, Triblock P**, etc.
- If there is danger of rising damp, always insert a vapour barrier before preparing the screed.
- Check that the moisture of the wood flooring is the one prescribed.
- Install at temperatures between +10°C and +30°C.
- Install only if the walls and the ceilings of the room are dry.
- Mix only whole packs; batching partial quantities requires extreme precision in weighing the two components.

APPLICATION PROCEDURE

Preparing the substrate

It is necessary to carefully check the substrate to verify its condition and make it suitable for installing wood.

- **Cementitious screeds:** must be cured, dry, flat and mechanically strong. The surface must be free from dust, loose parts, oil residues, paints, etc. The moisture of the screed must be measured with a carbide hygrometer. If the residual moisture is higher

than that required, wait until the screed is dry or apply a suitable waterproofing primer such as **Eco Prim PU 1K**, **Primer MF**, **Triblock P**, **Primer PU60**, etc. in order to make a vapour barrier.

Substrates that are not solid enough must be removed or where possible, consolidated with a primer such as **Eco Prim PU 1K**, **Primer MF**, **Primer EP**, **Primer PU60**, **Profas**, etc.

Cracks can be repaired with products such as **Eporip**, **Eporip Turbo**, **Epojet**, etc. Particularly rough or uneven surfaces can be smoothed with levelling compounds with very high mechanical strength, such as **Ultraplan**, **Ultraplan Maxi**, **Nivorapid**, **Fiberplan**, etc. and should be chosen in relation to the thickness needed. Installation of another flooring can be carried out once the product has dried (See Technical Data Sheet).

Special MAPEI hydraulic binders can be used for the preparation of fast drying and shrinkage compensated screeds: for example **Mapecem** or **Mapecem Pronto**, which allow installation after 1 day, **Topcem** or **Topcem Pronto**, after 4 days. Screed laid onto light weight concrete or onto a grade concrete slab must be provided with a suitable vapour barrier.

- **Existing ceramic tile, marble flooring, etc.:** must be clean of all grease, polish/ paint before proceeding to bond. This adhesion can be further improved by applying a coat of **Primer KL**, immediately before installation.
- **Wooden flooring:** check that the strips of existing flooring are well bonded to the substrate. Remove any paint or wax by abrasion until perfectly clean underneath wood. Vacuum clean the dust. Proceed with the next bonding.
- **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 **Eco 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.

Mixing the adhesive

The two components of **Ultrabond P913 2K** are packed in plastic containers and are already pre-measured:

- component A : 9 parts by weight
- component B : 1 part by weight

Any type of modification of the ratio between component A and component B compromises the correct cross-linking of the product.

Mix with a low speed stirrer until a uniform colour is obtained. Setting time and pot life strictly depends on the ambient temperature. During summer time the product hardens quickly while in winter it takes longer. At temperatures below +10°C the reaction is too slow, therefore it is not recommended to use the product.

Applying the product

Apply **Ultrabond P913 2K** on the substrate using a MAPEI notched trowel for wood.

The open time is approximately 1 hour under normal temperature conditions (+23°C).

INSTALLING WOOD FLOORING

The wood that will be installed must be stored in a place protected from bad weather, dry and not subject to vapour condensation and must be insulated from the ground. Before installing check that the moisture of the wood is correct.

While installing apply pressure on the wood to make sure the adhesive wets the back of the wooden strips.

Leave a 1 cm joint around the perimeter of the flooring and around columns or other protruding parts.

When installing predefined strips, avoid the overflow of the adhesive in the joints of the strips in order not to dirty the surface. Never bond the wood on the sides.

SET TO LIGHT FOOT TRAFFIC

The floors are set to light foot traffic after approximately 24 hours.

FINISHING PROCESSES

Polishing can be carried out after a minimum of 3 days, depending on the season. However, it is recommended to wait 7-10 days so the parquet can settle better.

Cleaning

Whilst fresh **Ultrabond P913 2K** can be removed with alcohol-based or specific products. Once the product has hardened, it can only be removed mechanically or with **Pulicol 2000**.

CONSUMPTION

Depending on the type of substrate, 1000-1500 g/m² with a MAPEI wooden trowel.

COLOUR

Beige and brown.

PACKAGING

10 kg (A+B) units:

- component A: 9 kg drum;
- component B: 1 kg jar.

STORAGE

In original well sealed containers and stored in a normal environment, **Ultrabond P913 2K** is stable for at least 12 months.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Ultrabond P913 2K component A is

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

| | component A | component B |
|---------------------------------------|------------------------------|-----------------------------|
| Consistency: | paste | paste |
| Colour: – light: – dark: | beige brown | beige beige |
| Density (g/cm³): | 1.70 | 1.57 |
| Dry solids content (%): | 96.5 | 100 |
| Brookfield Viscosity (mPa·s): | 30,000 (7 shaft - rpm 50) | 8,000 (7 shaft - rpm 50) |

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

| | |
|---|------------------------------|
| Mix ratio: | A : B = 9 : 1 |
| Viscosity of the mix (mPa·s): | 30,000 (7 shaft - rpm 50) |
| Density of mix (kg/m³): | 1,660 |
| Pot life of mix: | 60' |
| Application temperature range: | from +10°C to +30°C |
| Open time: | 1 hour |
| Adjustment time: | 2 hours |
| Set to light foot traffic: | after 24 hours |
| Finishing processes: | after 3 days |

FINAL PERFORMANCE

| | |
|--|------------------------|
| Adhesion (pull-out) wood-concrete (N/mm²): | > 3 (concrete failure) |
| Adhesion (pull-out) wood-ceramic (N/mm²): | > 3 |
| Workability temperature range: | from -30°C to +70°C |
| Flexibility: | yes |
| Shore A Hardness (after 7 days at +23°C): | 80 |

Ultrabond P913 2K



inflammable. It is recommended to store it away from naked flames and sparks, to avoid smoking, to prevent the build-up of electrostatic energy and to work in well-ventilated areas. Furthermore, it may irritate the eyes and skin.

Ultrabond P913 2K part B is corrosive and may cause burns. Both component A and B may cause sensitization if they come in contact with the skin of predisposed subjects. The product contains low weight molecular epoxy resins which may cause sensitization if cross-contamination with other epoxy compounds occurs. During use, wear protective gloves and goggles and take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention. Furthermore, **Ultrabond P913 2K** component A is dangerous for aquatic life. Do not dispose of it in the environment. For further and complete information about the safe use of our product please refer to our latest version of the 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

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



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