



MAPEI

Ultrabond Eco 380

Pressure-sensitive adhesive in water dispersion with a strong initial bond, and extended open time for vinyl flooring



WHERE TO USE

Adhesive in water dispersion, specific for bonding PVC floor coverings.

Suitable for internal use on:

- level absorbent surfaces;
- heated floors.

Also suitable as a “pressure sensitive” adhesive (dry tacky adhesive film) for bonding dimensionally stable vinyl flooring on non-absorbent substrates.

Recommended for:

- static and dynamic loads, including intense loads, in residential, commercial and industrial environments (such as hospitals, shopping centres, airports, etc.);
- wheelchairs in compliance with EN 12529.

May be applied with a notched trowel or roller to bond resilient wall coverings.

Some application examples

Ultrabond Eco 380 is used for bonding:

- heterogeneous and homogeneous PVC tiles and rolls;
- cushion floor and multi-layered PVC;
- semi-flexible vinyl tiles;

Also suitable for bonding:

- carpet with latex mesh, PVC foam and polyurethane backing.

TECHNICAL CHARACTERISTICS

Ultrabond Eco 380 is a solvent-free, ready to use, beige coloured, synthetic polymer-based adhesive paste in water dispersion. It is characterised by its strong, rapid initial bond and extended open time and sets to form a tough, elastic film.

Properties of the product:

- very easy to apply;
- strong, tough initial tack;
- extended open time;
- excellent permanent tack;
- tough, elastic film with “leg-effect”;
- excellent adhesion to all types of substrate;
- suitable for all areas used by wheeled vehicles in compliance with regulation DIN EN 12529;
- solvent-free;
- non-inflammable;
- harmless for floor installers and end users.

RECOMMENDATIONS

- Bond flooring at the specified temperature, usually from +15°C to +35°C.
- Do not bond flooring on substrates without protection against rising damp.

Ultrabond Eco 380



Applying Ultrabond Eco 380



Installing PVC floor tiles

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:	creamy paste
Colour:	light beige
Density (g/cm ³):	1.25
pH:	8.5

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

Application temperature range:	from +15°C to +35°C
Waiting time:	10-20 minutes (60-70 minutes as "pressure sensitive")
Open time:	60-70 minutes
Set to light foot traffic:	3-5 hours
Ready for use:	approx. 24-48 hours

FINAL PERFORMANCE

PEEL 90° bond test according to EN 1372 (N/mm)	
- homogenous PVC:	> 1
- heterogeneous PVC:	> 1

- If there are particularly high temperatures due to direct sunlight, high mechanical loads from fork-lifts, etc. or high levels of damp (especially if the floor covering has not been welded or sealed) use a reactive adhesive such as **Adesilex G19** or **Adesilex G20**.
- For vinyl floor coverings with poor dimensional stability, use a specific adhesive with the capacity to withstand movements caused by temperature variations for example, such as **Ultrabond Eco VS90 Plus** or **Ultrabond Eco 4 LVT**.

APPLICATION PROCEDURE

Preparation of the substrate

Substrates must be flat, dry, absorbent, strong, free of dust, loose material, cracks, paint, wax, oil, rust and traces of gypsum or any other material that could affect adhesion. Apply a layer of smoothing compound at least 3 mm thick on non-absorbent substrates. Alternatively, use the product as a "pressure-sensitive" adhesive, that is, apply the floor covering after the water has evaporated off and the film of adhesive is transparent but still tacky (after approx. 60-70 minutes). In all cases, always comply with local norms and standards where the product is used. A British Standard approved test should give a reading of 75% RH or less, if this has not been achieved the use of a MAPEI Surface

Membrane will suppress residual / static moisture in a power floated concrete slab or sand/cement screed, provided that a base dpm has been incorporated.

For gypsum and anhydrite substrates the maximum humidity level should be 0.5% as measured with a carbide hygrometer, and in all cases, no higher than the level recommended by the manufacturer of the floorcovering. It is very important to check that there is no rising damp.

Floating screeds installed on lightened sub-layers or insulating material and screeds laid directly on the ground must be isolated by laying a vapour barrier.

To repair cracks in the substrate, consolidate screeds, install rapid-drying screeds and to level off the installation bed, we recommend referring to the relative section of the MAPEI catalogue or Technical Manual or contacting the MAPEI Technical Services Department.

Acclimatisation

Prior to installation, make sure the floor covering and substrate have been acclimatised at the specified temperature and level of R.H.

Spreading the adhesive

Ultrabond Eco 380 is supplied ready to use and does not require any preparation. Mix the adhesive well in its tub before use. Spread the amount of adhesive required on the substrate using a suitable notched trowel.

Installing floor coverings

Follow the manufacturer's installation instructions

Installation may be carried out after waiting the specified time (10-20 minutes), depending on how much adhesive has been applied, the surrounding conditions, the absorbency of the substrate and the type of floor covering. The adhesive must be applied within its specified open time of 60-70 minutes. The floorcovering should be rolled with a 68 kg roller immediately after it has been installed, starting from the centre and working towards the edges to ensure the adhesive is transferred to the back of the floorcovering, and any air bubbles removed. If necessary repeat the rolling operation after a few minutes.

If the floor covering is very thin, make sure the rolling phase also eliminates any streaks in the adhesive which could show through the surface.

The floor may be stepped on with care after 3-4 hours (according to the surrounding temperature and absorption of the substrate). Floors are ready for use after approximately 48 hours.

When laying onto non-porous surfaces or low porosity surfaces, a suitable levelling / smoothing compound from the MAPEI range should be overlaid at a minimum thickness of 3mm to provide an absorption layer for the **Ultrabond Eco 380**. Application can then proceed as for porous surfaces.

Note: waiting and open times may vary, depending on the surrounding temperature, relative humidity and absorbency of the substrate. Waiting and open times are shorter at high temperatures and low levels of humidity and longer at low temperatures, high levels of humidity or if applied on non-absorbent substrates.

Pressure sensitive bonding

(Only for CV and dimensionally stable PVC coverings on impervious substrates). Allow the adhesive to air-dry until it has taken on a uniformly yellowish to transparent colour (approx. 60-70 minutes); it is recommended to test with a finger to make sure is touch-dry but still tacky.

Cleaning

Ultrabond Eco 380 is easy to remove from floors, floor coverings, tools, hands and clothing with water while still wet. Once dry, it must be removed with alcohol or **Pulicol 2000**.

CONSUMPTION

Consumption varies, depending on the flatness of the substrate, the type of backing material on the floor covering and the type of trowel used.

Approximately 55 m² per 15 kg using an A2 notched trowel.

STORAGE

Ultrabond Eco 380 remains stable for at least 12 months under normal conditions in its original, sealed packaging. Do not expose to freezing weather for long periods.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Ultrabond Eco 380 is not considered as dangerous according to the current regulation regarding the classification of mixtures. We recommend to wear protective gloves and goggles and to take the usual precautions for handling chemicals.

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.

N.B.

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that the end users satisfy themselves that the product and conditions are suitable for the envisaged application.

No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification.

End users should ensure that our latest product data and safety information sheets have been consulted prior to use.

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



Rolling PVC tiles



**Ultrabond
Eco 380**



BUILDING THE FUTURE

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232-12-2015 (UK)