



MAPEI

Ultrabond Eco 380

Pressure-sensitive adhesive in water dispersion with a strong initial hold 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 for use 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;

- flocked floor coverings.

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;
- excellent back-buttering, including on difficult wall and floor coverings;
- 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.

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 +25°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. 48-72 hours

FINAL PERFORMANCE

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

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.
- 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 2 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. The maximum moisture content must be within the specified range: maximum 2-2.5% for cementitious substrates and 0.5% for gypsum or anhydrite substrates. 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. A long-piled roller may be used to apply

the adhesive when bonding lightweight wall coverings, but always make sure the wall covering is wetted sufficiently by the adhesive.

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 and must guarantee back-buttering of the floor covering. Make sure there are no air pockets and carefully massage the floor covering to make sure the adhesive is transferred onto the backing. The material must be laid out on the surface of the substrate. Avoid excessive stress at the seams. After installing the floor covering unroll it again or massage the surface.

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 the test with a finger to make sure it 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.

No. 1 MAPEI trowel:	approx. 250 g/m ² .
No. 2 MAPEI trowel:	approx. 350-400 g/m ² .
A1/A2 trowel:	approx. 200-300 g/m ² .
B1 trowel:	approx. 300-350 g/m ² .

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 hazardous according to current norms and guidelines regarding the classification of mixtures. It is recommended to use protective gloves and goggles and to take the usual precautions for the handling of chemicals. For further and complete information about the safe use of our product please refer to the latest version of our 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



Rolling PVC tiles



**Ultrabond
Eco 380**



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232-3-2015 (GB)