



MAPEI

Ultrabond Eco 375

Adhesive in water dispersion with a strong initial bond, long open time for vinyl floors

WHERE TO USE

Bonding internal vinyl floors.

Some application examples

Ultrabond Eco 375 is used for bonding internal floors in:

- homogenous and heterogeneous vinyl floors in rolls and tiles;
- PVC and semi-flexible vinyl tiles;
- carpet with latex, PVC foam and polyurethane backing;

ON

all kinds of conventional absorbent substrates stable in the presence of humidity normally used in the building industry.

TECHNICAL CHARACTERISTICS

Ultrabond Eco 375 is a solvent-free, synthetic polymer-based adhesive in water dispersion. It is available in paste form which is easy to spread by trowel, and is used to bond all types of PVC floor-covering materials.

Ultrabond Eco 375 stands out because it is extremely easy to spread and has a very high initial bond, which blocks any elastic return of the material being laid.

When hardened, **Ultrabond Eco 375** forms a tough, flexible film which allows for an excellent bond on all kinds of substrate. It may also be used for floors subject

to heavy pedestrian use, the passage of wheelchairs and for heated floors.

Ultrabond Eco 375 is non-inflammable. The adhesive is not a health hazard for either floor-layers or for those who use the rooms where it has been applied. It may also be stored without taking any particular precautions.

RECOMMENDATIONS

- Lay floors at the temperature recommended, normally between +15°C and +35°C.
- Do not lay floors on substrates with no protection for rising damp (honeycomb substrates with no vapour barrier, damp walls, etc.).
- In areas with the presence of water (canteen kitchens, showers, balconies, open porches, etc.) use **Adesilex G19** or **Adesilex G20**.

APPLICATION PROCEDURE

Preparation of the substrate

Substrates must be flat, dry, absorbent, resistant to compressive and tensile stresses, free of dust, loose particles, cracks, breaks, paint, wax, oil, rust and traces of gypsum and products which may compromise the bond.

In all cases, local norms and standards for each single country must be adhered to.

As a general rule, the humidity level must be as follows: a maximum of 2.5-3% for cementitious substrates and 0.5% for gypsum or anhydrite substrates.

It is important to check that there is no rising damp.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	creamy paste
Colour:	light beige
Density (g/cm ³):	1.22
pH:	8.5
Dry solids content (%):	74
Brookfield Viscosity (mPa·s):	60,000 (rotor 6 - 5 rpm)
Hazard classification according to Directive EC 1999/45:	none. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet
APPLICATION DATA (at +23°C and 50% R.H.)	
Application temperature range:	from +15°C to +35°C
Waiting time:	10-20 minutes
Open time:	50 minutes
Set to foot traffic:	after 3-4 hours
Waiting time before putting into service:	after approx. 48 hours
FINAL PERFORMANCE	
Resistance to humidity:	good
Resistance to ageing:	excellent
Resistance to solvents and oils:	good
Resistance to temperatures:	excellent
Resistance to the passage of wheelchairs:	suitable
Under-floor heating systems:	suitable
Flexibility:	excellent
PEEL 90° bond test according to EN 1372 (N/mm):	
– homogenous PVC:	> 1.5
– heterogeneous PVC:	> 1.5

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.

In the case of disjointed substrates or substrates which are not sufficiently smooth, apply a skimming layer to create a suitable laying surface.

To repair cracks in the substrate, consolidate screeds, install quick-drying screeds and to level off the laying bed, refer to the catalogues which illustrate the various ranges of MAPEI products for the preparation of substrates or contact the MAPEI Technical Assistance Department.

Acclimatisation

Before laying the floor, make sure the covering, the adhesive and the substrate have been acclimatised at the prescribed temperature.

The floor covering must be removed from its packaging a few hours before laying. The sheets must be rolled out to acclimatise them to the surrounding temperature and to remove stresses caused by the packaging.

Spreading the product

Mix the adhesive well in its tub before using.

Spread the quantity of **Ultrabond Eco 375** required on the substrate using a suitable notched spatula (use a MAPEI N° 1 or N° 2 spatula according to the type of substrate) so that the adhesive is spread in an even coat.

Laying the floor

Follow the instructions and indications of the manufacturer of the floor covering when laying.

The floor must be applied in sheets or tiles on **Ultrabond Eco 375** after the recommended waiting time (within 10-20 minutes at +23°C) but without exceeding the open time (50 minutes at +23°C).

The tiles and sheets must be well massaged with a wooden spatula or roller immediately after laying the floor covering, starting from the centre and working towards the edges, to make sure they are perfectly buttered and to remove all air bubbles.

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

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

Cleaning

While still fresh, **Ultrabond Eco 375** may be removed easily from floors, floor covering, tools, hands and clothing with water. Once dry, it must be removed with alcohol or **Pulicol 2000**.

CONSUMPTION

Consumption varies according to the flatness of the substrate, the type of backing material on the dressing and the type of spatula used.

MAPEI N°1 spatula: 0.25 kg/m².

MAPEI N°2 spatula: 0.35 kg/m².

PACKAGING

Ultrabond Eco 375 is available in 16 kg tubs.

STORAGE

Ultrabond Eco 375 remains stable for at least 12 months under normal environmental conditions in its original, sealed packaging. Protect **Ultrabond Eco 375** from freezing weather.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Ultrabond Eco 375 is not considered hazardous according to current norms and guidelines regarding the classification of mixtures. However, we recommend the use of protective gloves and goggles, and to take the usual precautions for handling chemical products.

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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