ULTRABOND 380

“Pressure sensitive” adhesive with strong and fast initial tack, very long open time, for vinyl floor and wall coverings





WHERE TO USE

Special adhesive for PVC floorings in commercial projects.

For use on floors and walls in interior applications.

Suitable on:

- level, absorbent surfaces;
- underfloor heating systems.

Recommended for:

- static and dynamic loads, including intense loads, in residential, commercial and industrial environments (e.g. in hospitals, shopping centres, airports, etc.).
- stresses from chair castors according to EN 12529.

Also suitable as transitional pressure-sensitive adhesive for bonding dimensionally stable PVC and CV floor coverings on impervious, non-absorbent substrates.

Some application examples

Use **Ultrabond 380** for bonding:

- homogeneous and heterogeneous PVC floor coverings in sheets;
- CV and multilayer PVC floor coverings;

Also suitable for bonding:

- semi-flexible vinyl floor tiles (VCT);
- textile floor coverings (with latex-primed, PVC and polyurethane foam backings);
- flocked textile flooring;
- PVC wall coverings.

TECHNICAL CHARACTERISTICS

Ultrabond 380 is a solvent free, acrylic adhesive in water dispersion, formulated in a ready to use light beige paste. Due to its particular formulation and extended open time, it can be used as wet-bed adhesive on absorbent substrates, as well as transitional pressure sensitive adhesive for bonding dimensionally stable vinyl floor coverings on impervious, non-absorbent substrates.

Product Properties:

- very easy to apply;
- strong, tough initial tack;
- very long open time;
- excellent residual tack;
- tough, elastic film with “leg-effect”;
- excellent wetting even with difficult coverings;
- very high peel strength;
- very good adhesion to all PVC backings;
- exposure to castor wheels in accordance with EN 12529;
- solvent free;
- not flammable;
- harmless to the health of the installer and the end-user.

RECOMMENDATIONS

- Install at recommended temperatures, normally between +15°C and +35°C.
- Do not install on substrates not protected from rising damp.
- Use **Adesilex G19** or **Adesilex G20** in the event of extreme temperatures due to solar radiation, intense mechanical stress by lift truck, forklift, etc. or frequent washing (in particular when the floor coverings are not welded or sealed).
- For vinyl floor coverings with poor dimensional stability, use a specific adhesive with the capacity to withstand movements caused by temperature variations, such as **Ultrabond Eco VS90 Plus** or **Ultrabond Eco 4 LVT**.

APPLICATION PROCEDURE

Preparation of the substrate

Substrates must be dry, level, sound, mechanically strong, free of dust, loose particles, cracks, paints, wax, oil, rust, traces of gypsum or any contaminants that can interfere with bonding.

On non-absorbent substrates, apply a smoothing compound to a minimum thickness of 2 mm; alternatively, apply the floor covering after the water has evaporated off and the film of adhesive is yellowish-transparent, but still tacky (after approx. 30-40 minutes).

Commonly, the moisture content must comply with the local regulations.

It is essential to make sure there is no rising damp present.

Unbonded screeds laid over lightweight concrete or over insulation and screeds laid directly onto earth must be separated by a vapour barrier to prevent rising damp.

To repair cracks in the substrate, consolidate and waterproof screeds, form new fast-drying screeds and level uneven substrates, please refer to the relevant Technical Documentation or contact the MAPEI Technical Services Department.

Acclimatisation

Before starting the installation, make sure that the floor or wall covering and the substrate are acclimatised to the recommended temperatures and R.H.

Spreading the adhesive

Ultrabond 380 is ready to use and does not need any preparation. Before use, stir the adhesive in the bucket.

Apply the adhesive evenly to the substrate with a suitable notched trowel.

When installing thin wall coverings, a long nap roller may be used alternatively (always ensure the wetting of the backing material).

Installation of the flooring

Follow the manufacturer's instructions

Wet bonding (on absorbent substrates)

Leave a waiting time (approx. 10-20 minutes) according to the application quantity, climatic conditions, substrate absorbency and type of covering. Only apply as much adhesive that can be covered within the open time and with good transfer to the backing of the covering. Place the floor covering into the still wet or semi-dry adhesive bed: the adhesive ridges have to be impressed.

Take care to avoid air pockets and carefully rub the floor covering down to ensure good adhesive transfer to the backing.

Avoid excessive stress at the seams. After installing the floor covering, it is always necessary to carefully roll it down again or to firmly rub it down.

Note: *waiting and open time may vary depending on temperature, relative humidity and absorbency of the substrate. They will be shorter at higher temperatures and lower humidity, but longer at lower temperatures, higher humidity and with low-absorbent substrates.*

Pressure sensitive bonding (only for dimensionally stable floor coverings on impervious substrates)

Allow the adhesive to air-dry until it has taken on a uniformly yellowish-transparent colour (approx. 30-40 minutes); it is recommended the test with a finger to make sure it is touch-dry but still tacky.

When installing impervious sheet floor coverings, the Double Drop technique can be used to reduce the time taken waiting for the adhesive to dry. Lay the floor covering into the wet adhesive, press all over to achieve transfer, then pull it back exposing the adhesive. Leave until the adhesive has dried to a firm tack before replacing the flooring accurately in position.



Applying Ultrabond 380



Installing PVC floor tiles



Rolling PVC tiles

CLEANING

While still wet, **Ultrabond 380** can be cleaned from floor coverings, tools, hands and clothing with water. When dry, clean with alcohol or a suitable solvent.

CONSUMPTION

Consumption varies with uniformity of substrate, the back of the flooring and type of trowel used.

MAPEI trowel no. 1:	approx. 250-300 g/m²
MAPEI trowel no. 2:	approx. 350-450 g/m²
Roller:	approx. 200 g/m²
Notch TKB A1/A2:	approx. 200-300 g/m²
Notch TKB B1:	approx. 300-350 g/m²

PACKAGING

Ultrabond 380 is available in 14 kg drums.

STORAGE

Under normal conditions, **Ultrabond 380** is stable for at least 12 months in its original sealed packaging. Avoid prolonged exposure to frost.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.com.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	
Consistency:	creamy paste
Colour:	light beige
Density (g/cm³):	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 (30-40 minutes on low/non absorbent substrates)
Open time:	60-70 minutes (up to 120 minutes on non-absorbent substrates)
Set to light foot traffic:	after 3-5 hours

Ready for use:	24-48 hours

FINAL PERFORMANCE DATA	
PEEL 90° adhesion test according to EN 1372 (N/mm): **– homogeneous PVC:** **– heterogeneous PVC:** **– carpet with foam backing:**	in compliance with EN 14259

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

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

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