



Ultrabond Eco VS90

Universal HT acrylic adhesive in water dispersion



Very low TVOC emissions



WHERE TO USE

Ultrabond Eco VS90 is a universal, high temperature solvent-free, non-staining acrylic adhesive in water dispersion, formulated in an easily trowellable paste, with very low emissions of volatile organic compounds (EMICODE EC 1).

It is non-flammable and contains no toxic substances; it can therefore be stored without special precautions and presents no health hazard during use.

Some application examples

Ultrabond Eco VS90 can be used for:

- interior installation of homogeneous and heterogeneous vinyl sheet and tile, semi-flexible vinyl and PVC tiles, polyurethane, polyester and PVC backed carpets, woven, secondary backed and needlepunch carpets, rubber tile and sheet;
- on all normal absorbent and moisture stable substrates used in construction.

APPLICATION PROCEDURE

Preparing the substrates

All phases of the installation should comply with the latest editions of British Standards.

The sub-floor should be clean, free from any contaminants and structurally sound. Any surface

additives that may hinder adhesion should be removed. It should also have an effective damp-proof membrane and be dry enough to receive a bonded floor covering.

A British Standard approved test should give a reading of 75% RH or less, if this has not been achieved the use of 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.

Acclimatisation

Before beginning the installation, make sure that the adhesive, the material and the substrate are acclimatised to the recommended temperature.

The material must be removed from any packaging and laid out to permit acclimatisation and reduction of tensions produced by packaging.

Smoothing/levelling compounds

Any cracks in the substrate should be filled with **Eporip** and deep indentations repaired with **Nivorapid** followed by the application of an appropriate MAPEI smoothing/levelling compound.

On new uneven concrete, and/or impervious substrates, the levelling/smoothing compound should be applied at a minimum thickness of 3 mm.

TECHNICAL DATA (typical values)	
PRODUCT IDENTIFICATION	
Consistency:	creamy paste
Colour:	light cream
Density (g/cm³):	1.30
pH:	8.5
Dry solid content (%):	73
Brookfield viscosity (mPa·s):	120 (6 rotors - 5 RPM)
Storage:	12 months in original unopened packaging
Hazard classification according to EC 99/45:	none. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packing and Safety Data Sheet
EMICODE:	EC 1 - very low emission
Customs class:	3506 91 00
APPLICATION DATA at +23°C - 50% R.H.	
Application temperature range:	from +10°C to +35°C
Waiting time:	10 to 20 mins
FINAL PERFORMANCE DATA	
PEEL strength at 90° according to EN 1372 after 14 days at +23°C (N/mm): – homogeneous PVC: – smooth rubber:	good 1.7 1.7
Resistance to moisture:	good (for short periods)
Resistance to ageing:	excellent

Where a concrete base has had surface treatment, this should be mechanically removed prior to the application of the levelling/smoothing compound.

Application onto porous surfaces

Ultrabond Eco VS90 should be spread evenly over the floor surface with a 1.6 mm-V-notched (A2) trowel in a sweeping motion with the trowel at an angle of 60° and the floor covering placed into the adhesive while it is still wet.

The open time varies from 30 to 40 mins, though this depends on the ambient conditions and porosity of the floor.

Application onto non-porous surfaces

When laying onto non-porous or low porosity surfaces, a suitable levelling/smoothing compound should be overlaid at a minimum thickness of 3 mm to provide an absorption layer for the **Ultrabond Eco VS90**.

Application can then proceed as for porous surfaces.

Finishing

It is essential to ensure a good overall contact between floor covering and adhesive, therefore once the floor covering has been laid, it should be rolled to ensure the transfer of the adhesive onto the back of the floor coverings.

Cleaning

Fresh adhesive can be cleaned off with water.

Once hardened, the dried adhesive can be cleaned off with **Pulicol** or white spirit.

CONSUMPTION

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

Approximately 55 m² per 15 kg using an A2 Trowel.

Approximately 18 m² per 5 kg using an A2 Trowel.

PACKAGING

Ultrabond Eco VS90 is available in 5 and 15 kg buckets.

STORAGE

The shelf life of **Ultrabond Eco VS90** is 12 months if stored in its original unopened packaging.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Ultrabond Eco VS90 is not considered dangerous according to the current norms on the classification of chemical products. It is recommended to take the usual precautions for handling chemical products.

For further and complete information about a safety 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 web site www.mapei.com



This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gesellschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.



Our Commitment To The Environment
More than 150 MAPEI products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

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



Ultrabond Eco VS90
Universal HT acrylic adhesive in water dispersion



231-10-2010

Any reproduction of texts, photos and illustrations published
here is prohibited and subject to prosecution

(U.K.) A.G. BETA