

ULTRABOND ECO S958 1K

One-component hard-elastic silylated polymer-based adhesive with zero solvent content and very low emission of volatile organic compounds (EMICODE EC1 Plus)



WHERE TO USE

Installation of all types and formats of pre-finished and solid wood flooring on any type of substrate, including heated screeds.

TECHNICAL CHARACTERISTICS

Ultrabond Eco S958 1K is a silylated polymer-based adhesive of the latest generation:

- completely solvent-free (according to TRGS 610);
- “hard elastic” category adhesive compliant with ISO 17178;
- extended workability;
- easy to apply with excellent rib stability;
- certified by GEV as a product with very low emission of volatile organic compounds (EMICODE EC1 Plus);
- easy to remove from hands and pre-finished wood;
- compatible with all **Ultracoat Oil** products and water-based undercoats and varnishes from the **Ultracoat** range.

RECOMMENDATIONS

- Before installing flooring, make sure all rooms are fitted with windows or other suitable systems to seal them off.
- Transport, storage and use between +10°C and +35°C.
- For internal use only.

APPLICATION PROCEDURE

Substrate preparation

- Check substrates carefully to make sure they are fully cured, dry, flat and strong and that there is no dust or loose material and no traces of oil, paint etc. on their surface.
- The screed or installation bed must comply with the requirements prescribed by applicable local standards or the Technical Data Sheet issued by the manufacturer of the wooden flooring.

- Repair cracks with products such as **Eporip**, **Eporip Turbo**, **Epojet**, etc.
- If the substrate does not comply with the specified mechanical characteristics it may be made suitable by applying one of the following primers: **Eco Prim PU 1K**, **Eco Prim PU 1K Turbo**, **Primer MF** or **Primer MF EC Plus**. The requirements prescribed in the product's relative Technical Data Sheet must be adhered to at all times.
- If the level of residual moisture is higher than the recommended limit for installing the flooring, wait until the screed is dry or apply a special waterproofing primer such as **Eco Prim PU 1K**, **Eco Prim PU 1K Turbo**, **Primer MF**, **Primer MF EC Plus**, **Triblock P**, etc.
- The flatness of the installation surface must comply with the requirements of local standards. Use **Ultraplan**, **Ultraplan Maxi** or **Nivorapid** to create a perfectly flat surface or, in the case of flexible substrates (such as old plank flooring), use **Fiberplan**. The requirements prescribed in the product's relative Technical Data Sheet must be adhered to at all times.
- When Installing flooring on surfaces with traces of glue or old skimming compound, or on laminated wood, chipboard, ceramic or natural stone, use **Eco Prim T Plus** or **Eco Prim VG**.
- Anhydrite substrates: make sure all the instructions of the screed manufacturer have been adhered to. Always check whether the screed needs to be sanded and primed. Mapei recommends sanding and priming with **Eco Prim PU 1K**, **Eco Prim PU 1K Turbo**, **Primer MF** and **Primer MF EC Plus**. MAPEI cannot be held responsible if the instructions provided by the manufacturer have not been followed correctly. If there are any queries, please contact MAPEI Technical Services.
- To make a quick-drying, controlled-shrinkage screed, use a special MAPEI hydraulic binder such as **Mapecem** or **Mapecem Pronto**. Using these products allows flooring to be installed after 24 hours and 4 days, respectively. Alternatively, use **Topcem** or **Topcem Pronto** ready-mixed, ready-to-use mortar which allow wood to be installed after 4 days; make sure the instructions in the relative Technical Data Sheet are strictly adhered to.

Spreading the adhesive and application of the wooden floor

Before installing the flooring, carefully read the instructions in the relative Technical Data Sheet issued by the manufacturer of the flooring.

Apply a sufficient amount of adhesive with a spreader suitable for the format of flooring elements and install the flooring within a maximum of 30 minutes.

When installing the flooring, press down firmly to make sure at least 70% of the back of the wooden elements are wetted with adhesive. In the case of solid wood flooring without joints, make sure the adhesive does not seep out between the edges of the elements.

Solid and pre-finished wooden floors set to foot traffic after approximately 12 hours.

Solid wooden floors may be sanded after approximately 3 days.

CLEANING

Ultrabond Eco S958 1K may be removed quite easily with a dry cloth within 30/40 minutes of application while still wet.

To remove traces of adhesive from the surface of the pre-finished wooden flooring use **Cleaner L** or **Cleaner H**. Always check the instructions given by the manufacturer of the flooring beforehand and test these products on an element that has not been installed to make sure they do not affect its surface finish.

If the product hardens please consult MAPEI Technical Services.

SEALING CONTAINERS OF PARTIALLY USED ADHESIVE

In order to save remains of the product upon completion of work, make sure the plastic tub is closed correctly and, the next time it is used, remove the layer of hardened adhesive from the surface and proceed as above.

CONSUMPTION

800-1200 gr/m².

PACKAGING

15 kg plastic tub.

STORAGE

12 months in its original sealed packaging stored under normal conditions.

The use of a thermally insulated container should be considered for transportation over long distances.

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:	beige
Density:	$1.65 \pm 0.05 \text{ g/cm}^3$
Dry solids content:	98%
Brookfield viscosity:	$35,000 \pm 5,000 \text{ mPa}\cdot\text{s}$ (spindle 7 - 50 RPM)
EMICODE:	EC1 Plus - very low emission

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

Application temperature:	+10°C to +35°C
Open time (formation of skin):	40 minutes
Adjustment time:	100 minutes
Set to foot traffic:	12 hours
Sanding (internal areas):	3 days

FINAL PERFORMANCE

Elongation (after 28 days at +23°C and 50% R.H.):	110%
Shore A hardness (after 28 days at +23°C and 50% R.H.):	60
Wood-concrete adhesion strength (after 28 days at +23°C and 50% R.H.):	$> 2 \text{ N/mm}^2$
Wood-ceramic adhesion strength (after 28 days at +23°C and 50% R.H.):	$> 2 \text{ N/mm}^2$
Shear strength according to ISO 17178 (after 7 days at +23°C and 50% R.H. + 20 days at +40°C + 1 day at +23°C and 50% R.H.):	$> 2 \text{ N/mm}^2$

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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2513-10-2024 en (IT)

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