WHERE TO USE
Bonding wooden parquet and all types and formats of pre-finished materials.

Some application examples
Ultrabond Eco S955 1K is used for bonding pre-finished materials, lamparquet, slats, floor-boards and all types of parquet on: cementitious screeds, screeds made using Mapecem, Mapecem Pronto, Topcem, Topcem Pronto and similar products, old wooden floors, ceramic, marble, terrazzo, etc. and anhydrite screeds. It is also suitable for heated substrates.

TECHNICAL CHARACTERISTICS
Ultrabond Eco S955 1K is a one-component, sililated polymer-based adhesive without water, solvents, with a very low emission level of volatile organic compounds (EMICODE EC1 R Plus). It is manufactured according to a technology developed in MAPEI’s own research laboratories and has the following characteristics:
• one-component, ready-to-use product; no catalyster is required, therefore no mixing. If stored correctly, remaining quantities of the product may be used again at a later date;
• suitable for use by installers who are allergic to epoxy and epoxy-polyurethane products;
• GEV certified, as a product with a very low emission level of volatile organic compounds (EMICODE EC1 R Plus);
• compatible with Ultracoat and Ultracoat Oil water based varnishes and undercoats;
• no hazard risks and risk and danger symbols;
• easy to apply with excellent ridge holding;
• 20-30% more yield compared with conventional two-component adhesives, thanks to its low viscosity and free-flowing properties when applied by trowel;
• totally free of solvents;
• easy to remove from hands and pre-finished elements.

RECOMMENDATIONS
• Before installation starts, doors and windows should be installed.

• The humidity level in the screed must be compliant with that prescribed by the current standards for the installation of wood, and as indicated in the technical data sheet for the parquet.

• If the substrate is not thoroughly dried, or if the residual humidity is higher than the level prescribed, we recommend the use of a suitable waterproofing primer, such as Eco Prim PU 1K, Primer MF, etc.

• If there is a risk of rising damp, a vapour barrier must be installed before laying the screed.

• Do not use Ultrabond Eco S955 1K if the temperature is lower than +10°C or higher than +35°C.

• When transported over long distances, thermally insulated containers may be required.

APPLICATION PROCEDURE
Preparation of the substrate
The substrate must be checked carefully to assess its condition, and to prepare it for laying parquet.
**TECHNICAL DATA (typical values)**

### PRODUCT IDENTITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consistency</td>
<td>creamy paste</td>
</tr>
<tr>
<td>Colour</td>
<td>beige or brown</td>
</tr>
<tr>
<td>Density (g/cm³)</td>
<td>1.60</td>
</tr>
<tr>
<td>Dry solids content (%)</td>
<td>100</td>
</tr>
<tr>
<td>Brookfield viscosity (mPa-s)</td>
<td>37,000 (rotor 7 - 50 rpm)</td>
</tr>
</tbody>
</table>

### EMICODE

- EC1 R Plus - very low emission

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended application temperature range</td>
<td>from +10°C to +35°C</td>
</tr>
<tr>
<td>Open time (formation of surface skin)</td>
<td>50-60 mins</td>
</tr>
<tr>
<td>Adjustment time</td>
<td>1 hour and 45 minutes-2 hours</td>
</tr>
<tr>
<td>Set to light foot traffic</td>
<td>approx. 12 hours</td>
</tr>
<tr>
<td>Polishing</td>
<td>after 3 days</td>
</tr>
</tbody>
</table>

### FINAL PERFORMANCE

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shore A hardness (7 days at +23°C)</td>
<td>45</td>
</tr>
<tr>
<td>Wood - concrete bond (N/mm²)</td>
<td>2</td>
</tr>
<tr>
<td>Wood - ceramic bond (N/mm²)</td>
<td>2</td>
</tr>
<tr>
<td>Elongation at breakage (7 days at +23°C (%))</td>
<td>200</td>
</tr>
<tr>
<td>In service temperature range</td>
<td>from -20°C to +80°C</td>
</tr>
</tbody>
</table>

- **Cementitious screeds**: must be well cured, dry, flat and mechanically strong. The surface must be free of dust, loose parts, oil, paint, etc. The level of humidity in the screed must be measured using a carbide hygrometer. To solve problems of residual humidity levels higher than those prescribed for laying, wait until the screed is dry, or apply a suitable waterproofing primer, such as Eco Prim PU 1K, Primer MF, Primer EP, Primer PU60, Triblock P, etc.

- Cracks in the substrate must be repaired beforehand with a product such as Eporip, Eporip Turbo, Epojet, etc.

- For installation on surfaces with traces of glue or old existing smoothing compounds, or for substrates in wood marine plywood, chipboard, ceramic or natural stone, use Eco Prim T, Eco Prim T Plus, Eco Prim VG.

- Excessively rough or uneven surfaces should be levelled using a smoothing compound with high mechanical properties, such as Fiberplan, Ultraplan, Ultraplan Maxi, Nivorapid, etc., chosen according to the thickness to be installed. Installation may be carried out once it has cured (see the relevant product technical data sheet). To install rapid-drying, controlled-shrinkage screeds, use a special MAPEI hydraulic binder: Mapecem, which allows for installation after 24 hours, or Topcem for installation after 4 days.

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- **Old floors in ceramic, marble, etc.** must be carefully cleaned and degreased before bonding. The adhesive may only be applied once the surface is dry.
• Wooden floors: make sure wooden floorboards are rigidly fixed to the substrate. Remove old paint or wax with sandpaper down to the bare wood, and remove all dust. The adhesive may then be applied.

• Anhydrite substrates: check and follow the instructions of the manufacturer of the screed. Always check if the screed should 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 declines all responsibilities if all the screed manufacturer’s recommendations have not been followed. In case of doubt do not hesitate to contact your local MAPEI’s Technical Services Department.

**Spreading the adhesive**

Spread the adhesive on the substrate using a MAPEI notched trowel for wood. Wood has to be laid within approximately 50-60 minutes under normal temperature conditions (at +23°C and 50% R.H.). If left-over adhesive from previous applications is to be used, open the drum, remove the skin formed on the surface of the adhesive and proceed as above. The layer of skin helps to preserve the left-over adhesive.

**SET TO LIGHT FOOT TRAFFIC**

Floors may be walked on after approximately 12 hours.

**POLISHING**

The floor may be polished after 3 days. Residual adhesive on the surface of the floor may be easily removed by using Cleaner L.

**Cleaning Ultrabond Eco S955 1K** may be removed using Cleaner L or other special cleaning solutions while still fresh. Once hardened, it must be removed mechanically or with Pulicol 2000.

**CONSUMPTION**

800-1200 g/m².

**PACKAGING**

15 kg plastic drums.

**STORAGE**

12 months in its original, well-sealed container stored under normal conditions.

**SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION**

Ultrabond Eco S955 1K is not considered dangerous according to the current regulations regarding the classification of mixtures. It is however recommended to use gloves, eyes protection and to take the usual precaution taken when handling chemical products.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

Keep out of reach of children. Ensure good ventilation during and after application and drying. Avoid eating, drinking or smoking while processing this product.

In case of contact with eyes or skin rinse immediately with plenty of water. Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil. Only properly emptied containers may be recycled. Dried product residues can be disposed of as normal household waste.

Product preservative-free. For information for allergic people, please call at +39/02/37673.1. Methanol separates during hardening. Wear protective gloves.

**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

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

“Der Blaue Engel“ is a German mark of ecological quality used to identify products which respect the environment, contractors and end users. MAPEI products carrying this logo have been tested according to strict criteria defined by the German standard RAL-UZ 115 and, because they are with very low emission of volatile organic compounds, also offer advantages for the environment and public wellbeing.

Our Commitment To The Environment

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