

Tovcol PU2C Plus

Two-component polyurethane adhesive

Odourless two-component polyurethane adhesive with a long pot-life, completely free from water and solvents for bonding traditional and engineered wooden floors of any size to any type of subfloor, even pre-existing non-absorbent ones (ceramic, marble, etc.).

After hardening, by chemical reaction between the two components, a tough mass is obtained, with high adhesion characteristics to various subfloors.

Tovcol PU 2C Plus guarantees high workability, elasticity and a particularly long pot-life. Suitable for heated subfloors. The absence of solvent and the very low concentration of other volatile organic substances guarantee greater safety for the user and respect for the environmental quality.

Technical data at 20 °C, 60% R.H.

Appearance	Thick paste
Mixing ratio	9:1 by weight
Mix density	1,780 kg/litre
Pot-Life	80 – 90 min
Blocking time	12 – 18 hours
Walkability	24 hours with caution
Sanding	3 days
Yield	0,9 – 1,4 kg/m ² – 10 mm trowel
Shear strength	> 2,4 N/mm ² according to UNI EN 14293
Application temperature	From + 10 °C to + 35 °C
Storage	12 months in original sealed packaging – Protect from freezing
Tool cleaning	Solvente di Lavaggio S/23, if hardened it can only be removed mechanically.
Cleaning of adhesive residues on pre-finished wood floor	Non-hardened adhesive – Stripcoll cleaner
Available packages	9 + 1 kg buckets
Available colors	Light woods

Subfloor preparation

Before laying, check that the rooms are fitted with windows and doors and that they meet the necessary requirements for laying wooden floors. Cementitious substrates must be flat, resistant to compression and traction, free from dust and incoherent parts, not excessively rough and absorbent. Any oily residues, previous glues or other treatments must be removed.

Anhydrite screeds must be sanded, vacuumed and, if excessively dusty, treated with an anti-dust primer such as Nanofix. If the humidity level is too high, they must be treated with a waterproofing primer such as Idroblok 2K, Toverfix, Primer PU100, Primer PU-FIX 60 or Adeblok T19 (to choose the primer, consult the relative technical data sheets).

Cementitious screeds with high residual humidity (max. 5%) must be treated with anti-humid primers such as Idroblok 2K, Toverfix, Primer PU-FIX 60, Primer PU100 or Adeblok T19.

Substrates that are not sufficiently solid and compact must be consolidated with a suitable primer such as Idroblok 2K, Primer PU 100, Toverfix, Adeblok T19 or Primer PU-Fix 60, if there are no humidity problems, Primer TS can also be used. In extreme cases the screeds will have to be removed and replaced.

Any cracks in the concrete surfaces can be repaired using synthetic mortars obtainable with Adeblok T19 mixed with Quarzo Puro.

The residual moisture content for cementitious subfloors must not exceed 2%; for those based on gypsum or anhydrite it must not exceed 0.5%; for heated floors, the residual humidity must not exceed 1.7%.



Adhesives
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Certifications



TOVER[®]



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Uneven or insufficiently flat subfloors must be leveled with a suitable product, such as the self-levelling product Rockfloor F10 (see technical data sheet), or by making synthetic mortars by mixing Quarzo Puro with the Adeblok T19 primer.

Pre-existing ceramic, granite, marble or similar floors must be well roughened and degreased; alternatively, after thorough cleaning, it is possible to use P.E.P.P.

In the presence of humidity (max 5%) these surfaces can be waterproofed with the three-component primer Idroblok C3 (consult the relative technical data sheet).

Any flatness defects can be compensated for with the self-levelling Rockfloor F10, after treatment with a suitable adhesion promoter such as Primer C4 (see technical data sheets).

If necessary, heated subfloors can be consolidated using Primer TS before switching on the heating system. Alternatively, after switching on and before installation, a solvent-free primer such as Primer PU100 or Adeblok T19 can be used (consult the technical data sheets).

In any case, the heated subfloors cannot be waterproofed, any residual moisture present must be eliminated by turning on the heating system before installation.

Wood floor bonding

Prepare the mixture of the two components by pouring component B into the container of component A, mix thoroughly, using an electric mixer (drill) until a homogeneous and uniform paste is obtained. Manual mixing is not sufficient to obtain a homogeneous mixture.

Apply the paste thus obtained with Tover nr 5 notched trowel (10 mm tooth) on the suitably prepared subfloor and lay the woodplanks by exerting light pressure on them to facilitate complete and uniform contact with the adhesive.

We recommend to always mix the complete bucket, errors in the use ratio can lead to various drawbacks such as poor mechanical properties and lacquering defects in correspondence with the joints between planks.

During installation, avoid wetting the side of the planks with adhesive, this incorrect practice prevents the natural dimensional movements of the wood and over time can cause abnormal large cracks or, in extreme cases, even breakage of the planks. On the other hand, we recommend finishing the planks with Tovcol SE vinyl glue to contain the so-called 'soap effect', improving the walkability on the floor during installation (see the technical data sheet of the Tovcol SE adhesive).

For an optimal installation we recommend to apply a quantity of adhesive greater than 60-70% of the entire surface, at a temperature not lower than 10 °C and R.H. not higher than 80%.

The cleaning of the surfaces, in particular pre-lacquered ones, from residues of Tovcol PU2C Plus must be carried out with the adhesive still fresh using the specific Stripcoll cleaner.

Once it has hardened, the adhesive can be removed with difficulty and only mechanically.

Notes

Frost sensitive.

Do not dilute Tovcol PU2C Plus, thinners drastically reduce the mechanical and bonding properties. In addition, if the diluents contain alcohols or traces of water, the adhesive can foam during hardening causing swelling of the floor.

Before laying, measure the humidity of the laying surface and the wooden elements to be laid.

Do not try to bond on screeds treated with aceto-vinyl primers.

Leave a space of about 1 cm on the perimeter of the room to allow the expansion of the wood.

Do not use the adhesive for bonding outdoors.

Tovcol PU2C Plus is a completely water free adhesive; this allows the laying of any wood floor size (planks or slats) with or without tapping; in the case of large size we recommend to place weights on the surface for the first few hours.

Safety rules

Product for professional use. Strictly comply with the labelling and consult the safety data sheet before using the product.

Disposal

Dispose of unused product and empty packaging in accordance with the provisions of current legislation.



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The information contained in this technical data sheet are for guidance only and they do not hold our responsibility. Adapt the use of our products to the environmental conditions and materials to be treated.
Rev 03 – 26/07/2021. Current Technical Data Sheet replaces the previous one.



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