



TEC™ 540

High-performance dispersion adhesive

ADVANTAGES

- Multi-purpose
- Varied bonding type: [Humid: *normally bonded adhesive*; self-adhesive: *completely bonded adhesive*],
- Adhesive appreciated by installers due to:
 - Its ease of application and its long work time
 - solvent-free
 - provides an excellent coverage
 - ensures high initial adhesion strength and final bond strength
- Very strong resistance of bonded items to plasticisers
- Suitable for application on heated floors

USE

Designed for the bonding of many floor coverings:

- Rubber floor covering (smooth backing) in sheets and tiles – maximum thickness: 4 mm - in tiles (up to 1 x 1 m).
- homogeneous or heterogeneous PVC coverings – in sheets or tiles
- Luxurious Vinyl Tiles
- polyolefin coverings
- linoleum with an acoustic sub-layer (*Marmoleum Decibel*)
- linoleum tiles with synthetic backing
- semi-flexible tiles
- SBR or PVC-backed textiles
- on TEC™ 910 PU leveller
- over underlay TEC™ 805

In the event of doubt concerning possible applications, please contact our technical support service first

GENERAL CHARACTERISTICS

Base	Aqueous acrylic copolymer dispersion.
Colour	Light beige
Adhesion time**	5 to 20 minutes for a humid bonding 20 to 30 minutes for a semi-humid bonding Over 30 minutes for auto-adhesive bonding (e.g. PVC on PVC)
Consumption	250 to 350 gr/m ² , depending on the substrate and the covering
Open time	Around 1 hour
Opening to traffic	After 24 hours*
Final curing	48 to 72 hours*
Storage	12 months in the intact original packaging in a cool area – Protect from frost.
Packaging	20 kg plastic buckets
Safety data sheet	Available on request

* The abovementioned values have been determined in a laboratory and must be considered to be indicative, taking into account possible variations in application conditions (substrate absorption, temperature, humidity, etc.).

** The adhesion time varies depending on the amount of adhesive applied, depending on the type of coverings (permeable, thick, rigid, unstable), climatic conditions of the premises and the porous nature of the substrate

SUBSTRATES

- The substrate must be sound, stable, flat, clean, permanently dry, not subject to rising damp, dusted and degreased, tension and compression resistant and not cracked.
- The substrate must comply with the standards and texts in force (*DTU, CPT and guides*). Take the necessary measures in the event of non-compliance.
- The substrate will already have been treated and prepared beforehand:
 - Concrete slabs and cement screed: using a P3 or P4 floor primer from our range, depending on the purpose of the premises
 - Wood substrates or particleboards: using a fibre primer from our range or with our ready-to-use interposition product TEC™ 900 DSP
 - Anhydrite screed: using our self-levelling patching TEC™ 920 Alpha primer.
 - Other substrates: please contact us.

Refer to the technical data sheets for the different substrate preparation products

CONDITIONS OF USE

Temperatures to be heeded during use	Application should not be carried out during periods of frost or intense heat The ambient temperature (<i>ideal</i>) must be between +15 and +25°C Application should not be carried out on a floor in the process of heating. Heating is suspended for a minimum of 48 hours before application
Minimum usage temperature	Substrate and atmospheric temperatures must be at least equal to +10°C.
Maximum permissible humidity	Ambient humidity and the substrate temperature must be such that there is no condensation at substrate level (<i>dew point</i>).

APPLICATION

Note: The adhesive must always be mixed in advance in the bucket prior to being applied to a substrate. Close the container tightly after use.

- Normal application, by simple adhesion of a substrate, using a shallow or deep toothed spatula, depending on the quality of the substrate and the type of covering (*250 to 350 g/m², TKB spatulas, A1 or A2 teeth*).
- Note: Do not overlap 2 layers of adhesive when repeating adhesion
- For carrying out certain works (*walls skirtings*), TEC™ 540 can be applied using a small toothed spatula, then smoothed out using a paint roller: around 200 gr/m².
- Heed the adhesion time. This responds to 3 concerns
 - Enables evacuation of some adhesive humidity prior to application (*waterproof covering and/or slightly absorbent substrate*)
 - Increases or accelerates the adhesive tack strength
 - Prevents slipping during laying of the tiled covering
- It can also be applied in the fresh adhesive bed (*textile coverings in lengths for example*.) In this case, the substrate must be sufficiently absorbent to expel only the humidity of the adhesive. For thin coverings and, more generally, to prevent the shadow of the adhesive furrows appearing during use, we recommend laying the covering on a weaker bonded adhesive film.
- The open time is around one hour.
- Roller pressing, designed to expel air trapped under the covering, to flatten the adhesive furrows and ensure good transfer to the back of the covering, must be carried out carefully and involve the entire surface of the covering.
It is preferably carried out in two stages: manually with a cork pressure plate, then with a heavy roller at the end of application.
- Joints, levelling and soldering of joints are carried out in accordance with the regulations pertaining to the type of work, whilst complying with the stipulations of the covering manufacturer.
- Cleaning of the tools and fresh stains with clean water.

Auto-adhesive bonding of a PVC covering on a TEC™ 805 underlay or of PVC on PVC

- Spread the adhesive in a thin and even layer using a very finely -toothed A4 spatula, evening out the fresh adhesive film (= disappearance of the furrows) using a short-haired roller.
- Allow to become bonded for 30 to 40 min, which enables the adhesive humidity to be expelled. This timeframe is highly dependent on the temperature and humidity of the premises.
- Adhere the covering to the completely bonded film (more than finger transfer) and smooth very carefully.
- The bonded covering should not sound either "hollow" or be under tension.

Comments:

- Only bond the surface that can be covered during the work time.
- Take into account the climatic conditions of the premises.
- When working, check the spatula teeth regularly for wear and tear and change it as often as necessary to follow the instructions.

SPECIAL PRECAUTIONS

Covering protection:

If the construction site completion conditions require that covering protection is used, this should only be laid after 72 hours, which corresponds to the adhesive drying time

Commissioning timeframe:

- **Opening to normal pedestrian traffic:** At least 48 hours after completion of the work
- **Final curing** 48 to 72 hours after bonding. The covering can then be subjected to traffic and to normal use.

Timeframe before reheating a heated floor:

At least 7 days after application of the bonded PVC floor covering.

Recommendation:

All work must be carried out in compliance with DTU, CPT, professional regulations, etc. in force, according to the respective technical data sheets for our products, whilst complying with the laying instructions from the covering manufacturer, recommended by the application guide, technical data sheets and other documents.

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