



TEC™ Liquidam EZ

Adhesive moisture vapour barrier for damp and new concrete and substrate exposed to capillary humidity

ADVANTAGES

- 1-part: application following simple mixing by hand
- Direct application of the self-levelling patching primer
- Application of the barrier and the primer on the same day
- Reusable: no waste
- Aqueous system: can be used in busy areas
- Solvent-free

USE

1-part adhesive barrier procedure in premises classified at most U4P3E3C2.

TEC™ Liquidam EZ is an aqueous dispersion 1-part procedure for the preparation of humid, cement-based substrates or those subject to repeat episodes of capillary rising damp.

It is designed to accept application of our self-levelling self-levelling compounds:

- TEC™ 993 HP, TEC 963 HP3, TEC 967 Fibrex prior to laying of a *PVC, linoleum, rubber, or textile* floor covering.
- TEC 994 prior to laying of a *PVC, linoleum, rubber, parquet floor or textile floor covering and in areas with identified risks*

Attention: not suitable for substrates that degrade under humidity (e.g.: calcium sulphate-based screeds , *etc.*), or heated floors
Does not involve a lining or waterproofing procedure (*TEC™ LIQUIDAM EZ is not crack-resistant*).

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

GENERAL CHARACTERISTICS

Base	Made up of special polymers
Colour	Blue
Waiting time between the two layers	90 to 120 min at 23°C.
Minimum application consumption:	800 g/m ² in two layers of 400 g/m ² (A3 spatula)
Usage temperature	from 10°C to 30°C
Storage	12 months in the intact original packaging in a cool area.
Packaging	15 kg plastic bucket
Safety data sheet	Available on request.

SUBSTRATES

- The permitted substrates are reinforced paving, slabs, concrete floors and screed that comply with the DTU in force.
- The substrate must be sound, stable, flat, clean, dusted and degreased, tension and compression resistant and not cracked. TEC™ Liquidam EZ can be used on a humid surface, but with no liquid water. The humid surface should be matt, not shiny.
- The cohesion of the substrate surface will be assessed by means of a cohesion test by perpendicular traction and the value obtained must be greater than or equal to 1 MPa for concrete and 0.8 MPa for screeds.
- At the time of application of the system that protects against rising damp, the substrates must generally be free from any product that may damage the bonding of the primer: dust, non-adhesive or poorly adhesive particles, traces of grease, oil, paint, rust, laitance, wax, maintenance products, materials containing light oils, plasticisers or antioxidants: curing or stripping compounds, bitumen, pitch, silicone, old adhesives, etc. and clean.

Concrete substrate.

The old or new substrate must be flushed, cleared of any surface film (*which may damage the adhesion of the barrier*): such as cement laitance on a new concrete substrate or traces of floor or adhesive primer on a substrate stripped for renovation.

- Either by using shot blasting, unless the surface is reduced or there are areas for which this technique is not possible
- Or by grinding with a technical plate with star-shaped blades or with a large grain diamond pad.

Note: planing must not be considered unless shot blasting is not possible (for example on very humid substrates: clogging of the shot blaster).

Note: the fineness of the surface condition obtained after grinding with a technical plate with star-shaped blades enables better control of the consumption of TEC™ Liquidam EZ than the rough surface obtained after shot blasting or planing.

Cement screed substrate.

Large grain black disc grinding (16 or 24) or light shot blasting is required.

These tasks are followed by careful suction using an industrial vacuum in all cases.

The cohesion of the substrate surface will be assessed by means of a cohesion test by perpendicular traction and the value obtained must be greater than or equal to 1 MPa for concrete and 0.8 MPa for screeds.

Substrate porosity

Porosity is measured using a water droplet test. A droplet of water is placed on the substrate surface and the amount of time it takes for the droplet of water to disappear is measured (liquid appearance of the substrate, but lack of liquid water on the surface).

Frequency: 5 tests for the first 100 m², then one test every 250 m².

If the substrate is very absorbent (absorption less than 60 s), the porosity of the substrate will need to be controlled by applying TEC™ 049 primer for absorbent substrates. Porosity is measured again to confirm the treatment has been effective.

Tiled substrate

- The substrate must be cleared of any trace that could damage the bonding of the resin. To do this, comply with part 2, section A2 of CSTB book no. 3635 by washing with a soda washing powder or a degreasing detergent. Grinding/matting will be carried out systematically on the tiled surface using a grinder with a diamond disc plate.
- These tasks are followed by careful suction using an industrial vacuum in all cases.

Treatment of cracks larger than 0.3 mm and smaller than 0.8 mm – Division joints:

- The visible cracks are initially opened using a cut-off wheel fitted with a diamond disc to a depth of 10 to 30 mm, then, secondly, a V-shaped opening is created on the substrate surface using a milling machine fitted with a diamond grinding wheel
 - Careful dust removal is carried out using a reliable industrial vacuum
 - Filling of the crack until saturation point is reached is carried out using TEC™ 024-MVB resins.
- 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°C and 25°C
Minimum usage temperature	Substrate and atmospheric temperatures must be between 10°C and 30°C.
Maximum permissible humidity: 80%	Ambient humidity and the substrate temperature must be such that there is no condensation at substrate level (<i>dew point</i>).
Internal use	

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H.B. Fuller Adhesives France SAS – 56, rue du Général de Gaulle – 67250 Surbourg – France

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APPLICATION

Note: For better use of the moisture vapour barrier, we advise that the product be acclimatised at the ambient temperature of the premises for at least 24 hours.

Buckets must be stored in a cool area, protected from humidity and frost.

An increased temperature of the components will lead to a reduction in working time and a low temperature will cause a prolonged drying time.

Mixing:

- The TEC Liquidam EZ barrier is supplied ready to use in a plastic bucket: do not dilute.
- Open the bucket and mix by hand using a paint mixer or long spatula until a creamy consistency and uniform colour is achieved. It is important to properly mix in all of the liquid phase that may be on the surface.
- Do not use an electric mixer so as to avoid adding air to the formulation, which would create additional work to eliminate the air bubbles during application.

Application:

- After mixing, apply the first coat to the substrate using an A3 spatula (around 400 g/m²), then level out the furrows using a roller made from 6 mm fibres pre-soaked in TEC Liquidam EZ. Ensure that the applied layer is even and perfectly homogeneous. A 15 kg bucket allows you to cover a maximum of 37.5 m² with a consumption of 400 g/m². On a substrate that is very rough, the yield will be less. Assess the consumption from time to time to ensure the formation of a smooth and continuous film.
- The second layer can be applied after the first coat can be walked on (dry appearance and hard to the touch), as early as 90 min after application. As with any aqueous system, the drying time for the first layer is particularly dependent on the absorption of the substrate and the temperature. On an enclosed substrate and at a temperature of 10°C, the drying time can be 4 to 6 h. After mixing, apply the second coat to the substrate using an A3 spatula (around 400 g/m²), then level out the furrows using a roller made from 6 mm fibres pre-soaked in TEC Liquidam EZ. Ensure that the applied layer is even and perfectly homogeneous. The second layer must cover any holes or voids in the first layer. Once dry, the second layer appears darker than the first layer. If a hole or void is detected, apply more TEC Liquidam EZ to cover it and leave to dry completely: do not work on the fresh layer. A 15 kg bucket allows you to cover a maximum of 37.5 m² with a consumption of 400 g/m². On a substrate that is very rough, the yield will be less.
- After application, the open but unused buckets (no contamination by the roller in the bucket) can be resealed and reused within 6 months.
- Clean tools and fresh stains immediately with water as hardened traces of product (60-90 min) are difficult to remove

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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