



HYTEC E570 ONE COAT

2 PART, EPOXY SURFACE DAMP PROOF MEMBRANE

TECHNICAL SHEET NO: TDS00881 03/01/2024

SMART ADVANTAGES

- Suitable for use on cementitious subfloors up to 99% RH
- Suitable for use on calcium sulphate screeds up to 87% RH (without UFH)
- Solvent-free, suitable for all areas of project work

DESCRIPTION

Bostik HYTEC E570 ONE COAT is a two-part, solvent-free epoxy system, containing the exact quantities of resin and hardener ready for mixing.

Bostik HYTEC E570 ONE COAT has been developed to suppress residual construction moisture in cementitious subfloors, including power floated concrete and sand/cement screeds. A single coat application can provide protection up to a maximum hygrometer reading of 99% RH.

Bostik HYTEC E570 ONE COAT is compatible with calcium sulphate (anhydrite) screeds up to 87% RH provided no underfloor heating is present.

Moisture readings quoted are based on testing undertaken in accordance with the testing methods as detailed in BS 8203 : 2017 Annex B, using a calibrated and insulated surface hygrometer or in-situ hygrometer probe.

It is suitable for use with warm water underfloor heating systems with cementitious screeds.



TECHNICAL CHARACTERISTICS

Colour	Resin (part A): colourless/clear Hardener (part B): black
Form	Resin (part A): low viscosity liquid Hardener (part B): high viscosity paste
Specific gravity	Resin (part A) approx.: 1.12 Hardener (part B) approx.: 1.8 When mixed approx.: 1.45
Composition	Resin (part A): epoxy resin Hardener (part B): blended epoxy hardener
Application temperature	+10°C to +30°C
Service temperature	-20°C to +60°C
Pot life	Up to 30 minutes after mixing (depending on ambient temperature and humidity)
Drying times	8 hours at +20°C 16 hours at +10°C When used with curing accelerator: 3 hours at +20°C 6 hours at +10°C (depending on ambient temperature and humidity)

Film thickness	<p>Approx. 290 microns minimum on a dense, smooth subfloor at 25m² per 10kg kit</p> <p>Film thickness can be checked using a film thickness gauge</p>
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COVERAGE

- Up to 25m² per 10kg kit
- Up to 12.5m² per 5kg kit
(depending on the smoothness and absorbency of the floor surface)

APPLICATION

IMPORTANT: Bostik HYTEC E570 ONE COAT, refer to the relevant Health & Safety Data Sheet, available at www.bostik.com/uk.

All phases of the application should comply with the current editions of:

- BS 8102 Code of Practice for protection of structures against water from the ground.
- BS 5325 Code of Practice for installation of textile floor coverings.
- BS 8203 Code of Practice for installation of resilient floor coverings.
- BS 8201 Code of Practice for installations of for flooring of timber, timber products and wood-based panel products.

Ensure the correct PPE is worn during use.

PREPARATION

- Ensure the subfloor is clean, sound, dry, of adequate tensile & compressive strength and free from loose material, laitance, cracks, structural defects, grease, oil, dust, dirt, curing compounds, surface hardeners, additives, adhesive residues, or any other contamination that may prevent adhesion to the substrate.
- On polished surfaces or subfloors with curing agents/surface hardeners, mechanical abrasion will be required.
- The subfloor should be tested for moisture in accordance with BS 8203 : 2017 Annex B. Readings above 75% RH confirm the use of Bostik HYTEC E570 ONE COAT is required.
- For optimum performance, a stable room temperature of +10°C to +23°C should be maintained for at least 24 hours prior to, during and 24 hours post application. The temperature of the subfloor must be at least +10°C throughout the application and curing phase. Ensure that a maximum room temperature of +25°C is not exceeded during application.

UNDERFLOOR HEATING

- Bostik HYTEC E570 ONE COAT can be used on substrates containing warm water underfloor heating systems. The system must be switched off 48 hours prior to, during and for 48 hours post application. To prevent rapid dehydration, wait 48 hours after installation before gradually turning up underfloor heating.

CONDITIONING

- Store the product for 24 hours prior to use in the temperature range +15°C to +25°C. Storage in colder temperatures may result in a more viscous consistency that will make application more difficult. Storage under higher temperatures will reduce the working pot life.

MIXING

- Do not mix the components together until the application is ready to start.
- Bostik HYTEC E570 ONE COAT must be mixed correctly prior to application to minimise air entrainment and formation of bubbles in the applied resin. Unmixed material will not harden.
- Using an electric drill and epoxy mixing paddle, first stir the hardener (part B) until a homogenous consistency is achieved.
- Slowly add the hardener (Part B) to the resin (Part A), whilst mixing with an electric drill and an epoxy mixing paddle.
- Mix thoroughly for 2 to 3 minutes with a slow speed electric drill and an epoxy mixing paddle until a homogeneous uniform mixture is achieved.
- To minimise air entrainment and bubble formation, do not exceed a drill speed of 300rpm.
- Once mixed, immediately apply the mixed resin directly to the prepared substrate using the recommended notched spreading trowel, ensuring that the angle of the trowel is no less than 60°.
- Where accelerated curing is required, Bostik HYTEC E570 ONE COAT ACCELERATOR can be added to the material once mixed. For full product details, see Bostik HYTEC E570 ONE COAT ACCELERATOR technical data sheet. Use 1 x 250ml unit of accelerator for a 5kg kit, or 2 x 250ml units of accelerator for a 10kg kit. Thoroughly mix the accelerator into the Bostik HYTEC E570 ONE COAT. As soon as mixing has been completed, apply the material. The pot life will be reduced to approx. 20 minutes.

NOTE:

- It is essential that the product is back mixed in the empty container (A). Pour some of the mixed material from container (B) back into container (A) and fully mix with the residues to ensure all components are combined. Once mixed, pour the material back in to container (B) and use. After back mixing is performed, all material when hardened will be inert and deemed non-hazardous and normal waste streams can be used. Unmixed material is hazardous and will require specialist disposal. Contact Technical Services for detailed instructions. Consult with local & national authority regulations for safe disposal.
- Never leave mixed material unattended. The product is exothermic and will generate heat when left in the original containers. Ensure all mixed product is decanted onto the floor.

APPLICATION

For relative humidity up to 95%:

- Spread evenly over the floor surface using a triangular notched trowel with a minimum notch size of 1.5mm x 5mm or A2 notched trowel. After application, use a roller pre-wetted in Bostik HYTEC E570 ONE COAT to over roll the product resulting in an even, continuous and pinhole free film.

- Ensure the mixed material is worked well into the surface. It is essential that a pinhole free coating is achieved, and that a maximum coverage rate of 25m² per 10kg unit is not exceeded.

For relative humidity between 95 and 99%:

- Spread evenly over the floor surface using a brush, roller or a triangular notched trowel cut to a minimum notch size of 2mm x 6mm or B1 notched trowel. After application, use a roller pre-wetted in Bostik HYTEC E570 ONE COAT to over roll the product resulting in an even, continuous and pinhole free film.
- Ensure the mixed material is worked well into the surface. It is essential that a pinhole free coating is achieved, and that a maximum coverage rate of 20m² per 10kg unit is not exceeded.

NOTE:

- In all cases, the cured Bostik HYTEC E570 ONE COAT should appear glossy and be pinhole free. If matt in appearance, or if pinholes are present, then a further application is required.
- Allow to cure to a glossy black tack free film. At +20°C, the cure time will be approx. 8 hours. This will be reduced to 3 hours when adding Bostik HYTEC E570 ONE COAT ACCELERATOR.
- Protect surface from traffic and contamination.

Subsequent applications:

- Within 24 hours of Bostik HYTEC E570 ONE COAT curing, apply Bostik GRIP A936 XPRESS or undiluted Bostik GRIP A526 UNIVERSAL to the surface of the substrate.
- Allow the primer to fully dry. Typically, 1 to 2 hours depending on the ambient conditions.
- Apply the chosen Bostik smoothing compound in accordance with the relevant Technical Data Sheet.
- Allow the smoothing compound to dry. Bond the floor covering with the recommended Bostik adhesive.
- In some cases, timber can be bonded directly to the DPM within a 24-hour window of curing. Contact Technical Services for further information.

CLEANING

- Clean tools and equipment with a suitable solvent immediately after use. Dried and hardened resin can only be removed mechanically.

STORAGE

- Store and transport securely in an upright position. Ensure the lid is fully closed. Store for up to 12 months from date of manufacture in original, unopened packaging in cool, dry conditions within the temperature range +10°C to +25°C and out of direct sunlight. Protect from frost.

PRECAUTIONS IN USE

For any application not covered, please contact Technical Services on +44 (0)1785 272625 or visit www.bostik.com/uk for advice.

Recommendations and suggestions are for guidance only, since conditions of use are completely beyond our control.

For health and safety instruction, first aid measures and spillage and disposal instructions, see separate Health and Safety Data sheet for Bostik HYTEC E570 ONE COAT, available at www.bostik.com/uk.

PACKAGING

Product codes		
	30620704	5kg bucket
	30620703	10kg bucket

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