



# HYTEC E570 ONE COAT

## 2 PART, EPOXY SURFACE DAMP PROOF MEMBRANE

Date: 22 September 2021

Fact Sheet No.: TDS00881

### YOUR 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

### USES

Bostik HYTEC E570 ONE COAT is a two-part, solvent-free epoxy system, containing the exact quantities of resin and hardener ready for mixing together. Curing is by a stoichiometric chemical reaction, giving a gloss finish.

It has been developed to suppress residual construction moisture in cementitious subfloors, including power floated concrete and sand/cement screeds. On a smooth, power floated concrete base, a single coat application can provide protection up to a maximum hygrometer reading of 99% RH. It is compatible with calcium sulphate (anhydrite) screeds up to 90% RH (without UFH). Moisture readings quoted are based on BS 8203, using a properly calibrated and insulated surface hygrometer.

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

### PRODUCT 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
Product Codes	30620704 5kg bucket 30620703 10kg bucket
Storage/Shelf Life	Store and transport securely in an upright position. Ensure the lid is secure. 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 +35°C and out of direct sunlight. Protect from frost.

### TYPICAL PERFORMANCE DATA (Approx.)

Application Temperature	+10°C to +30°C
Service Temperature	-20°C to +60°C
Coverage	Up to 25m <sup>2</sup> per 10kg kit Up to 12.5m <sup>2</sup> per 5kg kit
Pot Life	30 minutes approx. at +20°C
Drying Times	8 hours at +20°C 16 hours at +10°C With Accelerator: 3 hours at +20°C 6 hours at +10°C
Film Thickness	Approximately 290 microns minimum on a dense, smooth subfloor at 25m <sup>2</sup> per 10kg kit
Cleaning	Clean tools and equipment with suitable proprietary cleaning fluid

## DIRECTIONS FOR USE

IMPORTANT: Before using Bostik HYTEC E570 ONE COAT, refer to the relevant Health & Safety Data Sheet, available at [www.bostik.com/uk](http://www.bostik.com/uk).

All phases of installation should comply with the latest editions of:

- BS 5325 Code of Practice for installation of textile floor coverings.
- BS 8203 Code of Practice for installation of resilient floor coverings.

## PREPARATION

### Subfloor:

1. Ensure the subfloor is sound, clean, surface dry and free from loose material, laitance, cracks, structural defects, dust, dirt or any other contamination that may prevent adhesion to the substrate.
2. Remove all surface water prior to application. On polished surfaces or subfloors with curing agents/surface hardeners, mechanical abrasion will be required.

### Underfloor heating systems:

3. Warm water underfloor heating systems must be switched off for 48 hours before installation. Wait 48 hours after installation before gradually turning up underfloor heating. Please contact Technical Services for further advice.

## CONDITIONING

4. Store the product for 24 hours prior to use in the temperature range +15°C to +25°C. Storage under 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

5. Do not mix the components together until the application is ready to start.
6. Using an electric drill and paddle, first stir the hardener (part B) until a homogenous consistency is achieved, then whilst continually stirring, add the resin (part A) until a uniform colour is obtained. Any unmixed material will not harden.
7. If there is a requirement for a faster cure, Bostik HYTEC E570 ONE COAT ACCELERATOR should be added to the mixed material at this stage. 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.

## APPLICATION

### Power floated concrete:

8. Ensure all surface hardeners and additives have been removed. This will require shot blasting or mechanical abrasion. All contaminants from previous trades must

be removed to leave a clean, dust free surface with no standing water.

### Sand/cement screeds:

9. Bostik HYTEC E570 ONE COAT can be used on well-compacted, lightly textured sand/cement screeds. If there is any doubt as to the suitability of the screed, please contact Technical Services.

### For relative humidity up to 95%:

10. Spread evenly over the floor surface using a brush, roller or a triangular notched trowel cut to a minimum notch size of 1.5mm x 5mm. Using a roller pre-wetted in Bostik HYTEC E570 ONE COAT, over roll the product to give an even, continuous film.

11. 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 25m<sup>2</sup> per 10kg unit is obtained.

### For relative humidity between 95 and 99%:

12. 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. Using a roller pre-wetted in Bostik HYTEC E570 ONE COAT, over roll the product to give an even, continuous film.

13. 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 20m<sup>2</sup> per 10kg unit is obtained.

14. 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.

15. 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.

16. Protect surface from traffic and contamination.

17. Thoroughly prime the cured coating with Bostik GRIP A526 UNIVERSAL or Bostik GRIP E946 EPOXY.

18. Cover with a minimum 3mm thickness of a Bostik smoothing compound to provide an absorption medium for any subsequent adhesive.

19. Allow the smoothing compound to dry, and bond the floor covering with the recommended Bostik adhesive. However, it is not always necessary to cover Bostik HYTEC E570 ONE COAT with a smoothing compound, especially if the following adhesives are to be used:

Bostik FIX A320 TACK or Bostik CONTACT N320 MULTI

20. In all cases, it is advisable to apply the adhesive between 1 to 2 days after the final coat of Bostik HYTEC E570 ONE COAT.

21. 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

22. Clean tools and equipment with a suitable proprietary cleaning fluid immediately after use.

## PRECAUTIONS IN USE

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

BOSTIK HOTLINE

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