

Technical Data Sheet

ES101

TREMBlock DPM GT

One Coat Universal DPM

21-05-2025 / V 2

Description

ES101 TREMBlock DPM GT is a one coat solvent free, low viscosity, two component epoxy resin. With excellent bond strength, ES101 TREMBlock DPM GT fully cured, is a damp proof membrane which can accommodate hygrometer readings up to 98%. (theoretically 99.9%RH).



Features and Benefits

- Cost effective single coat application reducing time on site
- Protects the final floorcovering from residual construction moisture and rising damp
- Can be applied where a structural damp proof membrane is not present or is ineffective
- Accommodates up to 98% RH (theoretically 99.9%RH)
- Increased coverage up to 38%, 25m² - 33m² (dependent on application thickness)
- Can be applied to Anhydrite/Calcium screed-based screeds (without Underfloor Heating where readings are up to 87% Relative humidity.)
- Solvent free (In-line with BREEAM Compliance) Eco Friendly
- Suitable for concrete and sand & cement screeds incorporating underfloor heating (surface temperature must not exceed 27°C in accordance with BS 8203 and BS 5325)

Usage Purpose

ES101 TREMBlock DPM GT has been developed specifically to provide a guaranteed surface damp proof membrane with a single coat, where a structural damp proof membrane may not be present.

ES101 TREMBlock DPM GT can be used on unheated Anhydrite/Calcium Sulphate Screeds with a moisture content of 87%RH or less.

ES101 TREMBlock DPM GT is suitable for use on concrete and sand & cement screeds incorporating underfloor heating (surface temperature must not exceed 27°C in accordance with BS 8203 and BS 5325)

Packaging

ES101 is supplied in units of 10 kg (Duo can) or 25 kg.

Available Colour

When mixed: Black

Part A: Black

Part B: Clear amber liquid

Shelf Life

12 months when stored in its original unopened containers.

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Storage

Store off the ground in frost free, dry, shaded conditions, out of direct sunlight and draughts. between +5°C and +40°C. Rotate stock using old material first.

Certificates & Approvals

All aspects of the installation must be in accordance with the requirements of British Standard BS8203:2017 Installation of Resilient Floor Coverings – Code of Practice or BS5325:2021-TC – British Standard Code of practice for installation of textile floor coverings, BS 8204 - Screeds, bases and in-situ floorings and supplementary specifications.

When installing moisture sensitive floor finishes British Standard BS8203:2017 Installation of Resilient Floor Coverings – Code of Practice recommends that a moisture test should be undertaken prior to installation.

Hygrometer readings must be taken and recorded so that the correct system can be selected. Concrete curing compounds and over trowelled concrete will extend the time taken for the hygrometer to reach equilibrium. Subfloor measurement readings of up to 98% RH (measurable) can be accommodated with the system (99.9% theoretically).

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Composition

ES101 TREMBlock DPM GT is a flexibilised epoxy, which contains wetting aids and penetrants to maximise adhesion, flow control agents to minimise pinholes and graphene particles which provide an extra barrier to moisture vapour.

Hardening Time

In +20°C: Light foot traffic: After 14 hours Full chemical cure: 5-7 days Overcoat time: 14-24 hours

Technical Characteristics

Composition	ES101 TREMBlock DPM GT is a flexibilised epoxy, which contains wetting aids and penetrants to maximise adhesion, flow control agents and improved Eco Friendly formula to minimise pinholes. Which provide an extra barrier to moisture vapour.	
Mix Ratio		2.2:1 by weight
Pot Life In +20°C		35 minutes
Storage	Store between +5°C and +40°C	Rotate stock using old material first
Hardening Time		<ul style="list-style-type: none"> +20°C: Light foot traffic: After 14 hours Overcoat time: 14-24 hour Full chemical cure: 5-7 days
Service Temperature Range		-20°C to +80°C
Water Resistance		Excellent

Protective Equipment

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application. For further information see our Material Safety Data Sheet.

Mixing

ES101 TREMBlock DPM GT hardens by a chemical reaction.

It is essential that the mixing instructions are strictly adhered to: Stir Part A and Part B thoroughly before transferring Part B into the Part A container. Using a slow speed drill fitted with a two bladed propeller (NOT A CEMENT PADDLE), mix the contents for 4-5 minutes to obtain uniformity in colour and consistency. Ensure all materials from the base and sides of the containers are mixed in thoroughly to ensure a uniform mix. Do not mix more 10kg units than can be used within the working pot life.

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Note! To ensure no unreacted material is present, back mix the ES101 TREMBlock DPM GT. This will allow the safe disposal of the fully cured material as non-hazardous waste.

Priming

In most circumstances no priming is required.

Preparation

The surface must be firm, sound, clean, dry and free of dust, laitance, dirt and any other contaminants liable to prevent penetration into the substrate or adhesion to the surface. Remove any existing smoothing compounds. N.B. Concrete curing agents and admixtures and the misuse of these products can impair adhesion. Where doubt exists, or compatibility is unknown, a trial adhesion test with ES101 should be carried out and Tremco CPG UK Limited's Technical Department must be consulted.

Remove all surface dust, etc., by industrial vacuum cleaning. Machine scarifying or enclosed shot blasting will be necessary for removal of incompatible curing agents, admixtures or other stubborn surface contamination. Shot blasting is also recommended on lightly polished surfaces.

Application

Apply ES101 TREMBlock DPM GT evenly with a 2mm x 5mm 'v' notched trowel. While still wet, flatten out the serration ridges with a long-handled short pile roller, initially pre-wetted in ES101 TREMBlock DPM GT. Replace or re-notch worn trowels to ensure that the correct thickness of ES101 is maintained.

It is essential that the applied coating is continuous and free of pinholes or thin patches, otherwise an additional recoat coat will be necessary.

Measure out areas of 33m² (up to 92% RH) or 25m² 98% Relative humidity (Theoretically 99.9%) to ensure correct coverage for a 1 x 10 kg unit and to give the correct coating thicknesses of approximately 250-350 microns (dependent on system selected).

A practical coverage of approximately 25m² - 33m² per 10 kg unit is expected, dependent on application and porosity and surface profile of the subfloor.

The thickness must be no less than 250 microns in order to ensure that excess moisture vapour will not permeate the membrane.

Allow to cure for 16 hours at +15°C.

Check that the correct number of units were used on the area coated.

ES101 TREMBlock DPM GT can be used as an effective Radon barrier. For more information, please contact Tremco CPG UK Limited Technical Services. Further information available on from the website on the Application Technical Note

Coverage

Approximately 25-33 m² per 10kg unit depending on method of application and condition of substrate to give a dry film thickness of approximately 250-350 microns per coat

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Tool Cleaning

Clean tools or remove any uncured material Tremco AW421 Industrial Cleaner.

Please Note

Important. SX300 TREMSmooth HP must be applied within 24 hours (@15°C or 18 hours@18°C) following the application of ES101 TREMBlock DPM GT. Higher temperatures will reduce the overcoat window. (Please refer to our Technical Department in this instance). CS100 Epoxy Primer must be used at all times with Tremco water-based smoothing compounds.

Guarantee / Warranty

Tremco CPG UK Limited products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG UK Limited written instructions and (b) in any application recommended by Tremco CPG UK Limited, but which is proved to be defective, will be replaced free of charge.

No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct.

Tremco CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

Health And Safety Precautions

In case of contact with eyes, rinse immediately for a long period of time and consult a physician. In case of contact with skin clean immediately with water and soap. For further information see our Material Safety Data Sheet.

Technical Service

Tremco CPG UK Limited has a team of experienced Technical Sales Representatives who can assist in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.