

# ES200

## FAST CURING UNIVERSAL DPM



### KEY BENEFITS SUMMARY

- Accommodates up to 97% RH
- Suitable with underfloor heating
- Very cost effective single coat application reducing time on site
- Cures in half the time of conventional epoxy based surface damp proof membranes
- Suitable for heated concrete and sand cement screeds (provided the surface temperature does not exceed 27°C in accordance with BS 8203 and BS 5325)



### PRODUCT INFORMATION

#### Description

ES200 is a solvent free, two part, epoxy based damp proof membrane which achieves emicode EC1 status.

#### Usage/Purpose

Developed specifically for suppressing residual moisture in concrete and sand/cement subfloors and provides a guaranteed surface damp proof membrane with a single coat liquid application.

#### Colour

When mixed: Gun metal grey  
Part A: Dark grey  
Part B: Brown

#### Packaging

Units of 6 kg in metal containers.

#### Standards

All aspects of the installation must be in accordance with the requirements of BS 8204, BS 8203 (Installation of Resilient Floor coverings) or BS 5325 (Installation of Textile Floor coverings) and supplementary specifications.

#### Accreditations

EC1

#### Moisture Testing

(in accordance with British Standards 8203)

- 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 97% RH (measurable) can be accommodated with the system (99.9% theoretically).

#### Conditioning

Condition the contents by storing for 24 hours at +15°C to +25°C as cooler temperatures will increase viscosity and make application more difficult. Higher temperatures will speed the chemical reaction and therefore reduce working pot life.

#### Protective Equipment

USE IN WELL VENTILATED CONDITIONS and ensure all recommended protective equipment is worn during handling & use of this product. For full recommendation, refer to safety data sheet.

#### Preparation

- The surface must be firm, sound, clean, dry and free of any other contaminants liable to prevent penetration into the substrate or adhesion to the surface.

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 ES200 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 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.

#### Priming

- Priming is not required when applying ES200 onto clean contaminant free concrete and sand cement screeds.

N.B. ES100 and ES200 when cured, may require a primer before the application of a smoothing compound (Always check with Tremco CPG UK Technical department)

#### Mixing

ES200 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 B container.
- Using a slow speed drill fitted with a two bladed propellor (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 cure.
- Immediately after mixing, apply the mixed

product onto the floor in ribbons to avoid excessive heat build-up and increase working life.

- Do not mix more 6 kg units than can be used within the working pot life.

### Application

- ES200 is so easy to apply that it could be over extended; therefore, measure out areas of 15 m<sup>2</sup> (up to 92% RH) or 12.5 m<sup>2</sup> (up to 97%) to ensure correct coverage for a 1 x 6 kg unit and to give the correct coating thickness of approximately 250 - 350 microns (dependent on system selected).
- A practical coverage of approximately 12.5 m<sup>2</sup>-15 m<sup>2</sup> per 6 kg unit is expected, dependent on application and porosity of the concrete subfloor.
- Pour all of the ES200 onto the prepared concrete immediately after mixing then apply with a 2 mm x 5 mm notched trowel. While the ES200 is still wet, flatten out the serration ridges with a long handled, short pile roller, initially pre-wetted in the ES200. Replace or re-notch worn trowels to ensure that the correct thickness of ES200 is maintained.

### Typical Specifications

#### System TR1 (75 to 92% RH):

1. Apply an even, continuous coat of mixed ES200 to a minimum thickness of 250 microns as per application instructions and allow to cure for approximately 4 - 5 hours.
2. Apply SX300 NA latex underlayment to a thickness of 3 to 6 mm to the cured ES200 as per the product data sheet.

#### System TR2 (75 to 97% RH) (99.9% RH theoretically):

1. Apply an even, continuous coat of mixed ES200 to a minimum thickness of 350 microns as per application instructions and allow to cure for approximately 4 - 5 hours.
2. Apply SX300 NA latex underlayment to a thickness of 3 to 6 mm to the cured ES200 as per the product data sheet.
3. Secure the floor covering with the approved TREMCO adhesive.

#### System TR3 (Existing substrates with no damp proof membrane). Moisture content of up to 97% RH (99.9% RH theoretically):

1. Prepare the base as before and apply the ES200 as System TR2. If the existing concrete/sand cement subfloor is not sufficiently smooth, apply SX300 NA latex underlayment prior to the application of the ES200. Residues of old adhesive and underlayments must be removed mechanically then proceed as per specification. SF600 can be applied directly to ES200 when SX300 NA latex has been used to pre-smooth the substrate. Contact Tremco CPG UK Limited's Technical Department for free advice.

#### System TR4 (Sandwich damp proof membrane and bonding agent):

1. Prepare base as before.
2. Apply an even, continuous coat of mixed ES200 with a TREMCO long handled short pile roller to a minimum thickness of 250 microns as per application instructions and allow to cure for 4-5 hours.
3. Apply a second coat of ES200 before, applied at right angles to the first coat and whilst still in the tacky state, blind with limestone aggregate and allow to dry completely. Once dry, remove any loose aggregate.
4. Apply a quick dry screed of suitable thickness, slurry bonded into the second blinded coat of ES200.

NOTE: Always ask for a written specification.

#### System TR5 (75 to 97% RH) (99.9% RH theoretically) Underfloor Heating:

1. Prepare the base as before and ensure the under floor heating system has been commissioned for a minimum 7 days (refer to BS EN 1264 Part 4 and BS 8204 Part 1). In all cases the under floor heating system should be switched off for two days prior to and two days after installation of the flooring products and floor covering. The system should be recommissioned gradually to avoid rapid temperature variation.
2. Apply an even, continuous coat of mixed ES200 to a minimum thickness of 350 microns as per application instructions and allow to cure for 4 - 5 hours.

3. Apply CS100 primer in accordance with the product data sheet.

4. Apply TREMCO smoothing compound to a thickness of 3 to 6 mm to the cured CS100 as per the product data sheet.
5. Secure the floor covering with the approved TREMCO adhesive.

### Cleaning

Clean tools, etc., with AW421 Heavy Duty Cleaner (flammable).

### Health & Safety Precautions

Safety data sheet must be read and understood before use.

### Availability

Direct from Tremco CPG UK Limited (see back of leaflet for address and telephone details), or via local and national distributors.

### Technical Service

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

### 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.

### TECHNICAL DATA

| PROPERTY                  | RESULT   |
|---------------------------|--|
| Composition               | ES200 is a flexibilised epoxy, which contains wetting agents and penetrants to maximise adhesion, flow control agents to minimise pinholes and overlapping platelets which provide an extra barrier to moisture vapour                                   |
| Pot Life                  | Due to the fast cure profile designed into this product, all product should be applied onto the floor in a ribbon immediately after mixing. This will allow for the maximum working life to be achieved and facilitate application and improve coverage. |
| Water Resistance          | Excellent  |
| Chemical Resistance       | Good   |
| Mix Ratio                 | Mix full kits only   |
| Coverage                  | Approximately 12.5 m <sup>2</sup> to 15 m <sup>2</sup> per 6 kg unit, practically, dependent on method of application and condition of substrate to give a dry film thickness of approximately 250 - 350 microns per coat                                |
| Hardening Time            | +20°C: 3 to 4 hours<br>+15°C: 4 to 6 hours<br>+10°C: 7 to 10 hours   |
| Service Temperature Range | -20°C to +80°C   |
| Storage                   | Store between +5°C and +30°C<br>Rotate stock using old material first  |
| Shelf Life                | 6 months when stored in its original unopened containers   |

Tremco CPG UK Limited - A Company approved to:

