

# ES500

## SHEET MEMBRANE



### KEY BENEFITS SUMMARY

- Cuts down installation time as it can be installed over damp and contaminated substrates
- Can eliminate or reduce the need for mechanical preparation
- Can be installed onto sand cement screeds and concrete with a structural DPM included in the construction up to a moisture content of 97% RH (99.9% theoretically)
- Can be installed onto sand cement screeds and concrete without a structural DPM included in the construction up to a moisture content of 92% RH
- 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
- No VOCs
- Reduced weight per square metre for easier handling

### PRODUCT INFORMATION

#### Description

ES500 is a specially coated fibreglass underlay and acts as a continuous barrier substrate, is moisture resistant to damp with resin peduncles on the underside.

#### Usage/Purpose

A low permeability material designed to overcome the problems sometimes encountered in laying sheet floorings over new or old subfloors.

- ES500 can be laid over a variety of surfaces, such as old resilient and ceramic floor coverings, metal, access floors, subfloors contaminated with oil or paint, or damp subfloors.
- ES500 is suitable for general pedestrian and light commercial applications.

#### Colour

Green with peduncle backing

#### Packaging

Thickness 1.3 mm  
Roll Width 2.0 m  
Average Length 20 m

#### 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.

#### 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

- Hygrometer readings must be taken and recorded so that the correct ES500 system can be selected.

#### Preparation

- The surface must be firm, sound, clean, dry and free of any sharp surfaces liable to penetrate through the ES500.
- Remove all surface dust, etc., by industrial vacuum cleaning prior to laying the ES500.

#### Priming

- In most circumstances no priming is required.

#### Application

- ES500 should be rolled out, with the peduncles on the underside (reverse rolling may be required at low temperatures), and cut into the perimeter.
- The underlayment should lay flat with no distorting bumps. Joints should be abutted and taped using TREMCO approved water proof jointing tape. All air must be excluded.
- ES500 should be laid in the same direction as the finishing flooring, but the positions of the joints should not correspond.
- Most floor coverings can be adhered to ES500 with the appropriate TREMCO adhesive. Always refer to the tremco illbruck Technical Department for correct adhesive selection.

Note: When used in conjunction with lighter gauge floor coverings in larger areas, there may be a risk of movement under extreme trafficking conditions.

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TREMCO

### Please note

ES500 should NOT be used:

- In areas that are subjected to heavy wheeled traffic. Maximum point loading must not exceed 3 N/mm<sup>2</sup>
- On sub-bases that are subjected to hydro-static/osmotic pressure
- On ground floor timber-bases that are not adequately ventilated
- On ground floor woodblocks/ wood mosaics
- On ground floor magnesite, granwood or other composition floors
- On damp calcium sulphate/gypsum screeds

### Health & Safety Precautions

Safety data sheet must be read and understood before use.

### Availability

Direct from tremco illbruck (see back of leaflet for address and telephone details), or via local and national distributors.

### Technical Service

tremco illbruck 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 illbruck products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with tremco illbruck written instructions and (b) in any application recommended by tremco illbruck, 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 illbruck 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	A fibre reinforced PVC underlay
Water Resistance	Excellent
Chemical Resistance	Consult technical services
Service Temperature Range	Max temperature (short exposure) 50°C Max temperature (constant) 30°C
Storage	ES500 should be stored in a cool, dry and well ventilated place  PVC products should be stored at temperatures between +10°C and +25°C and only briefly at temperatures higher than this  The products must be stored without being subjected to tension, pressure or other deformations as stresses can encourage both permanent deformation and the formation of cracks
Shelf Life	2 - 4 years under correct storage conditions