

# technical datasheet

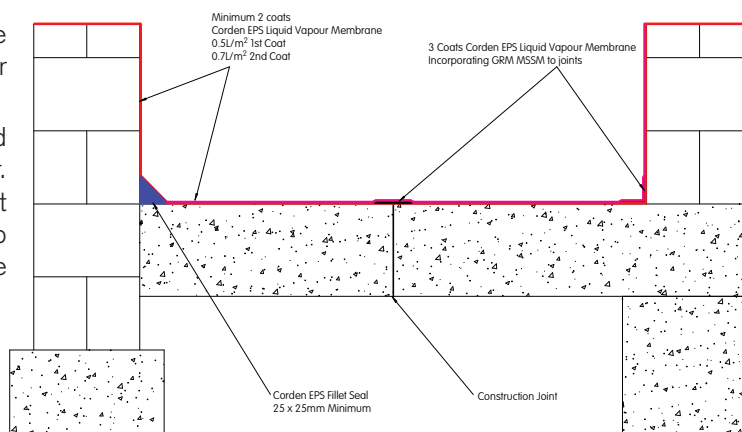
**cordeneps**  
environmental protection systems

## CORDENEPS Liquid Vapour Membrane

**CORDENEPS** Liquid Vapour Membrane is a high performance elastomeric liquid rubber membrane specifically designed for waterproofing a range of vertical and horizontal surfaces.

**CORDENEPS** Liquid Vapour Membrane is a water-based compound, formulated on a styrene-butadiene co-polymer.

**CORDENEPS** Liquid Vapour Membrane is a single component coating that requires only stirring to form the ideal product to provide a waterproof and gas proof, liquid applied, methane and carbon dioxide barrier.



### Key Benefits:

- A 0.7mm thick (dry film) coating provides an effective methane barrier when applied to most clay or cementitious-based construction materials.
- An effective waterproof membrane
- Excellent adhesion, bonds to porous and non-porous substrates.
- Flexible.
- Non-toxic.
- Will withstand temporary light trafficking.
- Cannot be punctured as fully bonded.
- Easily repaired by locally over-coating.
- Can be painted, plastered or screeded over.
- Rapid drying. In good conditions, two coats can be applied in the same day.
- Easily applied by brush, roller or airless spray.
- Easily applied to damp and 'green' substrates.
- Solvent free. Safer in use.

### Technical Data:

Components	1
Form:	Thixotropic liquid
Application temperature	Plus 4 degrees Centigrade
Toxicity:	Non-toxic
Density:	1.2 – 1.3 kg / ltr

### Cured Properties

Adhesion to concrete	More than 1.1 N/mm <sup>2</sup>
Elongation ASTM D2370%	More than 100%
Water penetration	3.0 bars – no penetration
Gas (methane) permeability	Less than 1.4 x 10 <sup>-12</sup>

### Chemical Resistance:

Corden EPS Liquid Vapour Membrane has good chemical resistance to gasoline, sodium hydroxide, calcium chloride, de-icing salts and effluent.

## Application Guidelines:

- Surfaces must be clean, free from dust and loose material, oil, paint, fungal growth etc.
- Non-structural cracks >0.5mm wide must be filled.
- Structural cracks must first be repaired and filled.
- The substrate must be sound and ideally present a smooth face. Fill holes with Fillet Seal, remove fins and snots; re-point flush to the finish.
- Old repairs must be inspected and re-repaired if necessary.
- Newly laid concrete should have a clean textured surface; **CORDENEPS** Liquid Vapour Membrane can be applied to concrete or mortar within 24 hours of laying.
- Apply 45° fillets into angles formed of Fillet Seal where practicable.

## Mixing:

- **CORDENEPS** Liquid Vapour Membrane is supplied ready blended in a pail. The product requires agitation using a slow speed paddle mixer. Mix carefully for 5 minutes before use. If containers are stored for more than 2 hours after opening, re-agitate.
- Do not add water.

## Surface Application

Pre-dampen (not wet) the substrate before applying the first coat.

### Interface with other media

- For expansion joints ensure that **CORDENEPS** Liquid Vapour Membrane is applied well into the rebate before the expansion media is applied.
- Other gas membranes must be exposed and lapped with **CORDENEPS** Liquid Vapour Membrane where present.

### Dealing with cracks

- Cracks must be stabilised and filled. Apply the first coat of **CORDENEPS** Liquid Vapour Membrane and apply plasterers' polyurethane scrim along the line of the crack. Apply a further coat of **CORDENEPS** Liquid Vapour Membrane fully cover the scrim; apply the final coat as stated below.

### Application of the main coating system

- The product can be applied by stiff brush, roller or airless spray with a minimum 17/1000 of an inch nozzle. The spray method is especially suitable for less accessible locations and uneven substrates.
- The first, primer, application is applied at the rate of >300g/m<sup>2</sup>. Ensure that the coating is even and use a circular action when spraying.
- Allow the primer coat to dry before applying the second coat.
- Apply the second coat at the rate of 700g/m<sup>2</sup> for brush application and apply at right angles to the first coat. Again use a circular action when spraying.
- Do not apply over bitumen.
- The total application thickness must not exceed 4mm if splitting or cracking is to be avoided.

## Packaging:

**CORDENEPS** Liquid Vapour Membrane is supplied in a 20lt pail.

## Limitations:

Not compatible with bitumen.

## Storage:

**CORDENEPS** Liquid Vapour Membrane must be stored at room temperature (min 10°C and max 35°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of 1 year can be expected.

## Health & Safety:

Corden EPS Liquid Vapour Membrane should only be used as directed. We always recommend that the Health & Safety data sheet is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Health & Safety data sheet is available upon request from Corden Manufacturing Co. Ltd.

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