Drybase® Damp-Proof Coatings

It is often necessary to apply damp-proof barriers over floors and walls – for example when an existing damp-proof course underneath a floor slab has become damaged, or where a rain penetration problem cannot be addressed from the outside of the building due to access constraints.

The Drybase® range of products allows damp-proof membranes to be applied over walls and floors in both new-build and refurbishment situations.

Deciding which Drybase® product to use will depend on a number of factors such as whether a trafficable surface is required or whether a plaster finish or screed needs to be applied on top. Some products in the range provide additional benefits such as chemical resistance.

Our technical department can be contacted on 01403 210204 to discuss the best choice of product for a specific project.

Drybase® Liquid-Applied DPM

Provides a damp-proof membrane beneath surface coverings

Drybase® Liquid-Applied DPM should be used in situations where an under-surface damp-proof membrane is required. The excellent adhesive qualities and quick drying time of Drybase® Liquid-Applied DPM make it extremely versatile. It is ideal for use in a wide range of situations and substrates such as: under floor coverings, beneath decorative surfaces, on internal wall joints or on timber joists.

Drybase® ECS Epoxy Floor Coatings

Provides a damp-, stain- or chemically-resistant floor surface

Drybase® ECS Epoxy Floor Coatings are for use on floor surfaces where damp-, stain- or chemical-resistance is required. There are two ECS Epoxy Floor Coating products in the Drybase® range. The standard Drybase® ECS Epoxy Floor Coating is ideal for domestic and light industrial areas that require a hard wearing damp and stain resistant floor surface. Drybase® ECS CR Epoxy Coating can be used on surfaces that require resistance to a wide range of different chemicals.

Drybase® Flex Membrane

Provided fast salt resistance for damp walls

Drybase® Flex Membrane is a highly durable and flexible membrane for direct application to walls that have been affected by dampness and salt contamination. The fleece-lined membrane can be quickly and easily applied to walls using the specially formulated Drybase® Flex Adhesive. It can be plastered onto directly, creating a versatile solution to the problem of damp walls, when it is not possible to stop the damp at its source.
Precautions
Read instructions and health and safety data sheet (available upon request) before use.

Guarantees
Call Safeguard on 01403 210204 for details of specialist contractors who offer guarantees on Drybase® installations.

Further information
For health and safety information see the Safety Datasheet (available upon request).

www.safeguardeurope.com/drybase
**Drybase® Liquid Applied DPM**

A ready-to-use liquid-applied damp-proof membrane. The easy application is carried out in two coats, with a brush or roller. Once applied, it cures to form a flexible and elastic damp-proof membrane.

It is ideal for use on damp floors and walls, before the application of floor and wall coverings. It can also be used to isolate embedded timber joists or to act as a barrier to ground gases. Its excellent adhesive qualities also make it suitable as an adhesive primer.

### Benefits
- Damp-proof barriers for floors and walls
- Single component, easy-to-use
- Can act as a barrier to gases and vapours
- Applicable to a wide range of materials
- Quick drying time

### Applications
- Damp-proof barrier between DPC and ground level
- Damp-proofing floor slabs
- Barrier to salt attack before replastering
- Fast track installation of flooring over newly built floor slabs.
- Timber applications – sunken posts, beams set into a wall, isolation of timber elements to protect against rot etc.
- Gas barrier for carbon dioxide, methane and radon
- Vapour barrier for use in conjunction with internal wall insulation (IWI)

### Water and Gas Resistance

<table>
<thead>
<tr>
<th></th>
<th>Water (liquid)</th>
<th>Water Vapour Permeability</th>
<th>Methane Resistance</th>
<th>Radon Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistance</td>
<td>20 metre head</td>
<td>&lt; 4 g/m²/24 hours at 25 °C/75 % RH following BS 3177</td>
<td>10 times more resistant than LDPE</td>
<td>Radon barrier at 2 mm thickness</td>
</tr>
</tbody>
</table>

### Mechanical Properties of Cured Film

- Tensile Strength: 4 N/mm²
- Elongation at Break: 350%

### Adhesive Properties

<table>
<thead>
<tr>
<th>Material</th>
<th>Pull-off force</th>
<th>Pull-off force after 3 months soak in water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>1.3 - 2.1 N/mm²</td>
<td>1.0 N/mm²</td>
</tr>
<tr>
<td>Brick (Fletton)</td>
<td>2.5 N/mm²</td>
<td></td>
</tr>
<tr>
<td>Lightweight Blocks</td>
<td>0.5 N/mm² with failure of the block</td>
<td></td>
</tr>
<tr>
<td>Plaster Wall</td>
<td>&gt;1.0 N/mm²</td>
<td></td>
</tr>
<tr>
<td>Timber Softwood</td>
<td>&gt;1.0 N/mm²</td>
<td></td>
</tr>
</tbody>
</table>

**Damp-proof Coatings for All Situations**
**Drybase® ECS Epoxy Floor Coating**

A hard-wearing and stain-resistant floor coating that is supplied as a two-part water-dispersed epoxy resin. It is applied in two coats using a brush or roller. **ECS Epoxy Floor Coating** is ideal for use as a final surface in light industrial factory areas, warehouses, storage areas and garages. The coating is damp-resistant, stain-resistant and able to withstand foot and light vehicular traffic.

**Benefits**
- Effective barrier to damp and staining
- Creates hard wearing and trafficable surface
- Suitable for domestic or light industrial use

**Applications**
- Treating damp and staining problems in solid concrete floors (e.g. garage floors)
- Floor and wall coating for kitchens and other food-processing areas
- Light industrial factory areas to give resistance to foot and light vehicular traffic
- Warehouse and storage areas

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**Drybase® ECS CR Epoxy Coating**

A two-part water-dispersed epoxy resin, similar in form and application method to **ECS Epoxy Floor Coating**, with enhanced chemical-resistance characteristics. It is applied in two coats, using a brush or roller. Once cured, the chemically resistant coating is ideal for use on floors and walls in industrial production facilities, laboratories or as a bund lining coating.

**Benefits**
- Excellent chemical-resistance
- Superior crack bridging characteristics
- Suitable for exterior use

**Applications**
- Bund walls and floors
- Laboratory floors and walls
- Specialist warehouse and storage facilities

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**Chemical Resistance of Drybase® ECS Epoxy Coatings**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Drybase® ECS Epoxy Floor Coating</th>
<th>Drybase® ECS CR Epoxy Coating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid (Conc.)</td>
<td>Fair</td>
<td>Fair</td>
</tr>
<tr>
<td>Nitric Acid 25%</td>
<td>Fair</td>
<td>Good</td>
</tr>
<tr>
<td>Sulphuric Acid 30%</td>
<td>Fair</td>
<td>Good</td>
</tr>
<tr>
<td>Sodium Hydroxide 50%</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td>Ammonia 10%</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td>White Spirit</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td>Methylated Spirit</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td>Xylene</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td>Lubricating Oil</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td>Petrol</td>
<td>Fair</td>
<td>Good</td>
</tr>
<tr>
<td>Skydrol</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td>Sodium Hypochlorite (Bleach)</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td>Salt (Sodium Chloride Saturated)</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td>Ammonium Sulphate 10%</td>
<td>Good</td>
<td>Good</td>
</tr>
</tbody>
</table>

**Drybase® System – Drybase® ECS Epoxy Floor Coatings**
**Drybase® Flex Membrane**

A watertight low-profile sheet membrane for protection against dampness in walls without the need to drill and install plugs. The membrane is a 1.5 mm thick flexible polypropylene sheet with a fleeced surface on both sides. The two fleeces ensure good adhesion to the wall by means of Drybase® Flex Adhesive, as well as the direct application of plaster to the face.

**Drybase® Flex Adhesive** is a polymer modified cement-based product used to fix Drybase® Flex Membrane to walls. It is supplied in powder form ready to be mixed with water, and applied using a suitable trowel.

### Benefits
- Fast – complete replastering in under 12 hours
- Low profile – matching in with existing plaster
- Apply plaster finishing coat immediately
- Compatible with standard gypsum plaster
- No need for drilling or wall plugs

### Applications
- Ideal for matching in with existing thin plaster coatings
- Walls suffering from dampness or salt contamination
- Chimney breasts
- Problem areas where the source of dampness cannot be easily identified
- Can be applied to curved walls and surfaces

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**DAMP-PROOF COATINGS FOR ALL SITUATIONS**

1. Install a Damp-Proof Course
2. Apply Drybase® Liquid-Applied DPM
3. Spread the Drybase® Flex Adhesive with a suitable trowel over the face of the wall.
4. Use a trowel to apply gentle pressure spreading from the centre outwards.
5. Apply a Bonding Coat
6. Apply a Skim Coat