

Drybase® Liquid-Applied DPM

Product Description

Drybase® Liquid-Applied DPM is a single-pack barrier coating that is supplied ready to use. It is available in black or white with a consistency similar to that of thick emulsion paint. The product is applied in two coats.

Once applied, the product cures to form a membrane that is flexible and elastic. **Drybase® LDPM** is water-based and can be applied to damp substrates by brush, roller, or spray. The applied product is typically touch-dry in one hour.

Drybase® LDPM provides a barrier to damp and ground gases (including radon, carbon dioxide, and methane).

Benefits

- Damp-proof barrier
- Gas and radon barrier
- Water-based
- Single pack system
- Easy to apply
- Good bond to many substrates
- Wet to dry colour change (Drybase® black)

Properties

Appearance	Dark blue ^[1] or white thick liquid
Recipe Type	Water-based
Density	1.0 g/cm ³
Size(s) & Packaging	1 litre tins and 5 litre plastic buckets
Coverage	4 – 6 m ² per 5 litres ^[2]
Active Ingredient(s)	Styrene butadiene latex
Water (liquid) Resistance	20 metre head (positive pressure)



Water Vapour Permeability	< 4 g/m ² /24 hours at 25 °C/75 % RH following BS 3177	
Methane Resistance	10 times more resistant than LDPE	
Radon Resistance	Radon barrier at 2 mm thickness ^[3]	
Tensile Strength	4 N/mm ²	
Elongation at Break	350 %	
Bond strength	Fletton bricks	2.5 N/mm ²
	Timber	> 1.0 N/mm ²
	Concrete ^[4]	> 1.0 N/mm ²
Cleaning of tools	Use warm soapy water	
Storage	Dry conditions between 5 and 35 °C	
Shelf Life	18 months	
Safety	For health and safety information see MSDS (available on request). Refer to our technical department for further information.	

Application Information

Preparation

All contact surfaces must be sound, clean and smooth with a trowelled or brushed finish. Any masonry should be flush-pointed and defects in existing surfaces made good. Remove any laitance, dust, loose material or surface water.

^[1] Dark blue dries to black.

^[2] Coverage will vary depending upon the substrate to be treated.

^[3] Ref. University of Saarland.

^[4] After 3 month soak.

Priming

Sound Surfaces

For sound surfaces no priming is necessary. To assist the membrane in fully wetting out the substrate the background may be dampened. There should not be any standing water.

Weak, Friable Surfaces

For surfaces with laitance and loose material there are two options to prime the surface before Drybase® application:

Option 1 – Remove the weak top surface by scabbling the floor and sweeping/vacuuming up all dust and loose material. Apply 2 coats of **Drybase® LDPM**.

Option 2 – Remove all dust, previous coatings and loose material by sweeping/vacuuming. For optimum adhesion, apply a coat of Bondaid Plus (SBR) to the surface as a primer before applying 2 coats of **Drybase® LDPM**. Alternatively, if Bondaid Plus is not available then, dilute the first coat of **Drybase® LDPM** with 30 % water for a smaller improvement in adhesion. Apply the second coat as normal.

Test Area

Because of the wide variety of possible substrates and site conditions, it is always advisable to check adhesion to the background by testing on a sample area before starting any job. Limitation: do not directly bond wooden flooring to **Drybase® LDPM** coated concrete.

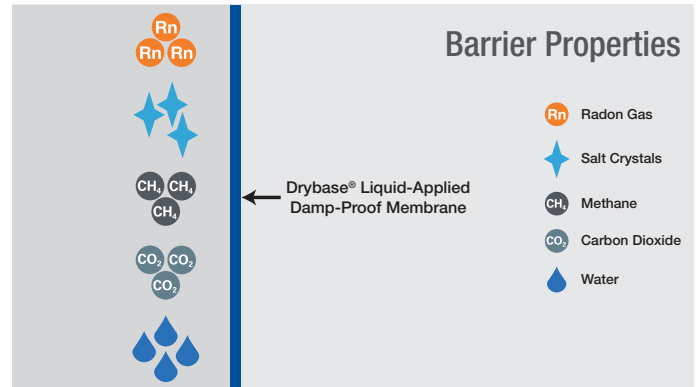
Application

Coating and Coverage

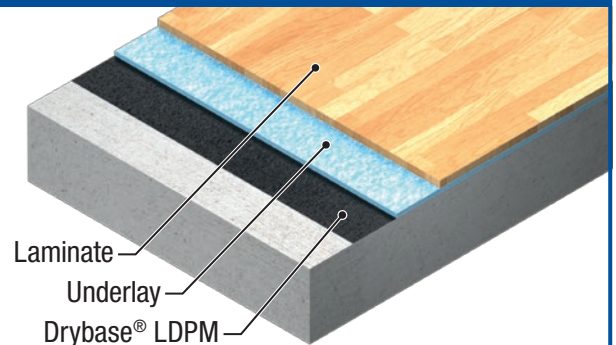
The product is applied in two coats by brush, roller or airless spray. Stir well before use. Care should be taken to ensure that the correct dry coat application thickness is achieved and that the drying time is not unacceptably extended. A minimum dry film thickness of 0.6 mm (1.1 mm wet film) is required to provide a vapour barrier. This should be applied in at least two coats with each at 0.55 litres/m² in order to comply with CP102:1973, Code of Practice for the Protection of Buildings against Water from the Ground. Always allow the first coat to become touch dry (typically one hour) before applying a second coat at right angles to the first. The first coat should not be allowed to dry for more than 24 hours before applying the second coat. If applying a subsequent screed to **Drybase® LDPM**, the second coat may be used as a primer for the screed.

Curing

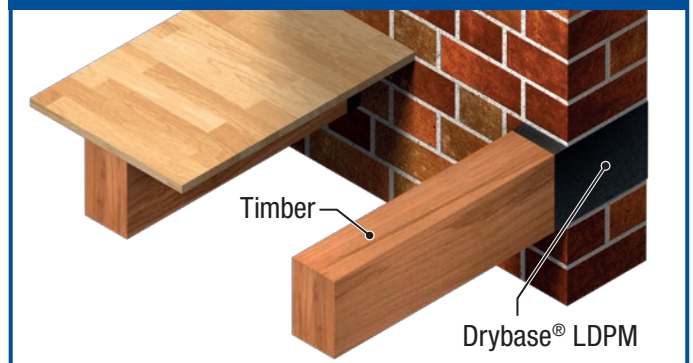
No special curing is required. Application of the membrane should not be undertaken if rain is expected before the coating can dry. Do not apply if the background or air temperature is 7 °C or lower. Black **Drybase® LDPM** will go on as dark blue, and dry to black once it's cured. If the colour remains blue, then this is an indication that further drying is required.



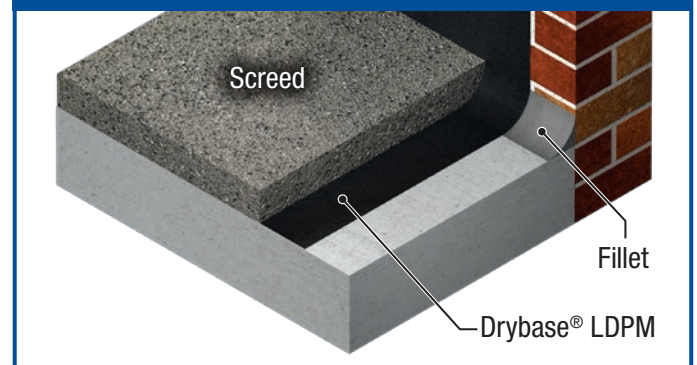
Laminate Wooden Floor



Embedded Timbers



Floor & Wall Junctions



Other Information

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

Drybase® LDPM is produced in accordance with ISO 9001 and ISO 14001 quality and environmental management systems. **Drybase® LDPM** has been tested in accordance with the appropriate parts of the following standards:

BS3177: Determination of water vapour permeability for flexible sheet materials

BS8204: Code of practice for polymer modified wearing surfaces

BS903: Determination of the permeability of rubber to gases (constant volume method)

BS903: Determination of tensile stress-strain properties

Code of Practice 102:1973: Code of practice for protection of buildings against water from the ground (Code of Practice 102:1973 partially replaced by BS8102:2009).

Information given is in good faith based on experience and usage, however all recommendations are made without warranty or guarantee, since the conditions of use are beyond our control. All goods are sold in accordance with our Conditions of Sale, copies of which are available on request. Customers are advised that products, techniques and codes of practice are under constant review and changes occur without notice; please ensure you have the latest updated information.