

# Gastite DPM



## Product Data Sheet

December 2005

### Cold applied self-adhesive membrane for protecting structures against the ingress of moisture and methane and radon gases

#### Features and benefits

- Resistant to methane and radon gases.
- Laminated metal foil and modified bitumen compound – provide dimensional stability, high tear strength, puncture and impact resistance.
- One layer application – low labour costs.
- Cold applied – no heating equipment required, increased site safety.
- Factory controlled thickness – no variations.
- Fully compatible with Gastite DPC and preformed cloaks for service penetration sealing and full site continuity of the system.
- Specification compliant with the requirements of BS 8102:1990

#### Description

Gastite DPM is a cold applied, self-adhesive gas-resistant membrane designed specifically to resist the passage of methane and radon gases.

Gastite DPM comprises a specially developed high strength composite film laminated to a self-adhesive polymer modified compound. When used in conjunction with Gastite DPC and preformed cloaks Gastite DPM forms a complete gas-resistant system.

Proper/adequate ventilation may be required to disperse gas from the structure.

#### Site Investigation

Prior to specification/installation of Gastite DPM a site investigation should be carried out to evaluate the site conditions specifically in relation to the presence of hydrostatic pressure and methane/radon gases. The designer should pay special reference to the guidance laid down in the British Standards (BS 8102:1990) Building Regulations 1991 Approved Document C2.

#### Product details

|             |                   |
|-------------|-------------------|
| Roll length | 20 metre          |
| Roll width  | 1 metre (20 sq m) |
| Thickness   | 1.5 mm nominal    |

| Property Method                             | Typical Value                   | ASTM Test  |
|---|---------------------------------|------------|
| Methane gas (CH <sub>4</sub> ) permeability | 0.09 ml/m <sup>2</sup> /24hr    |            |
| Joint strength                              | Trans 4.2 N/mm<br>Long 3.9 N/mm | EN 12113 B |
| Elongation                                  | Trans 8%<br>Long 6%             | EN12113B   |
| Tear resistance                             | Trans 102 N<br>Long 104 N       | EN 12310   |
| Adhesion to primed concrete                 | 1.8N/mm                         | D1000      |
| Adhesion to self                            | 1.7N/mm                         |            |
| Puncture resistance                         | 180 N                           | E154       |
| Moisture vapour transmission rate           | 0.1g/m <sup>2</sup> /24hr       | E96        |

## Site Installation

All surfaces should be clean, smooth, dry and free from dust, any sharp protrusions should be removed. Any hollows should be filled with high strength mortar. All surfaces to receive Gastite DPM must be primed with one coat of Ruberoid (SA) Self Adhesive Primer applied by brush or roller at a rate of 4m<sup>2</sup> to 6m<sup>2</sup> per litre depending on the porosity of the surface, and allowed to dry before the application of the membrane. Drying times may be extended during winter conditions. Primed areas should be covered with Gastite DPM membranes within 4 hours. Protect primed areas from contamination.

Gastite DPM should be laid by peeling back the protective silicone release paper and applying the self-adhesive face onto the prepared surface. The material should be rolled and brushed on to the surface to ensure a good initial bond. Adjacent rolls are aligned and overlapped a minimum 100mm at side and ends, and overlaps thoroughly rolled with firm pressure using a lap roller. Full adhesion is critical to ensure a fully gas-impervious layer.

## Detailing

Where detailing work to service penetrations etc is required, Ruberoid preformed cloaks should be used to offer full protection. The preformed cloak should be installed prior to membrane application and all subsequent membrane layers sealed over on top of the cloak.

Gastite DPC (damp proof course) should be installed where appropriate and bonded to form gas-tight continuity to the Gastite DPM. Service ducts should be ventilated to prevent gas infiltration into enclosed spaces.

After application care should be taken to ensure that there is no damage to the membrane. Any punctures should be repaired immediately by patching with Gastite DPM ensuring that there is a clear 100mm lap in all directions away from the puncture site. Protection of the membrane following application is essential. Where a 50mm sand and cement screed is not to be used, the membrane must be protected with Plasprufe Protection Board in both horizontal and vertical locations. Plasprufe Protection Board should be spot bonded to the Gastite DPM by means of Ruberoid DPC Jointing Tape at 450mm centres.

It is essential that the Gastite DPM be bonded to the Gastite DPC around the perimeter of the building to ensure full continuity of the system. Provisions should always be made for the collection and dispersal of gases by means of adequate ventilation.

## Specification clauses

Full product specifications in NBS format are available via Ruberoid 's national team of Project Managers. Please telephone or e-mail to schedule an appointment.

Ruberoid also provides a design facility where AutoCAD drawings can be prepared to support any material specifications. Our Technical and Design Services Department also provides technical advice via the telephone and email (see below).

## Other products

Full product literature, health & safety and technical sheets are available as downloads from our website [www.ruberoid.co.uk](http://www.ruberoid.co.uk) or on request by email: [marketing@ruberoid.co.uk](mailto:marketing@ruberoid.co.uk)

### Ruberoid Building Products

#### Literature Enquiries

E-Mail: [marketing@ruberoid.co.uk](mailto:marketing@ruberoid.co.uk) Website: [www.ruberoid.co.uk](http://www.ruberoid.co.uk)

#### Customer Services

Appley Lane North, Appley Bridge, Wigan, Lancashire WN6 9AB  
Tel: 0800 028 5573 Fax: 0800 013 5574 E-Mail: [sales@ruberoid.co.uk](mailto:sales@ruberoid.co.uk)

#### Technical & Design Services

Coney Green Road, Clay Cross, Chesterfield, S45 9HZ  
Tel: 0844 412 7228 Fax: 0844 412 7229 E-Mail: [technical@ruberoid.co.uk](mailto:technical@ruberoid.co.uk)

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