

Hyload Tanking Membrane Gastite SA

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

Product Details



Roll length	20m
Roll Width	1m (20m ²)
Thickness	1.2mm nominal

Introduction

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

Hyload Tanking Membrane Gastite SA comprises a specially developed high strength composite film laminated to a self-adhesive polymer modified compound. When used in conjunction with Gastite DPC, Hyload Tanking Membrane Gastite SA forms a complete gas-resistant system.

Hyload Tanking Membrane Gastite SA conforms to the requirements of ground gas protection measures designed to the NHBC traffic light system, and CIRIA C665. The product currently does not conform to the requirements of ground gas protection measures designed to BS8485:2015.

Features & Benefits

- Resistant to methane and radon gases
- One layer application – low labour costs
- Cold applied – no heating equipment required, increased site safety
- Factory controlled thickness – no variations
- Ensures continuity at walls
- Type A barrier membrane in accordance with BS 8102:2009)

Site Investigation

Prior to specification/installation of Hyload Tanking Membrane Gastite SA 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 8102:2009) Building Regulations Approved Document C.

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 Hyload Tanking Membrane Gastite SA must be primed with one coat of IKOpro SA Bitumen Primer applied by brush or roller at a rate of 3m² to 4m² 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 Hyload Tanking Membrane Gastite SA membranes within 4 hours. Protect primed areas from contamination.

Site Installation Continued...

Hyload Tanking Membrane Gastite SA 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-resistant layer.

Detailing

Hyload Gastite DPC (damp proof course) should be installed where appropriate and bonded to form gas-tight continuity to the Hyload Tanking Membrane Gastite SA. 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 Hyload Tanking Membrane Gastite SA 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 Hyload Protection Board in both horizontal and vertical locations. Hyload 3mm Protection Board should be secured to the tanking membrane with Hyload Jointing Tape No 2.

The Hyload Tanking Membrane Gastite SA must be continuous with the Hyload Gastite DPC in surrounding walls and all laps must be sealed. Depending upon the risks associated with the hazardous ground gases present, the provision of a gas collection and dispersal system may be required.

Additional System Components

Code	Product	Size	Description
MW646415	IKOpro SA Bitumen Primer	5L	Primer to prepare substrate
MW646419	IKOpro SA Bitumen Primer	25L	Primer to prepare substrate
62530000	Hyload 3mm Protection Board	1x2m	Tanking protection board
30860000	Hyload Jointing Tape No2	50mmx10m	Double-sided tape to secure protection board to tanking

Product Details

Property Method	Typical Value	ASTM Test
Permeability to Methane gas (CH ₄)	5cc/m ² x 24h x atm	CSI Method
Permeability to Radon Gas	0.56 x 10 ⁻¹² m ² /s	SP Swedish National Testing & Research Institute
Vapour Transmission Rate	1500m	EN1931
Radon Transmission Rate	0.47 x 10 ⁻⁹ m/s	SP Swedish National Testing & Research Institute
Peel resistance of joints	350n / 50mm	EN 12113 B
Elongation at break	Trans 20% Long 20%	EN 12113 B
Tear resistance	Trans 70N Long 70N	EN 12310
Adhesion to primed concrete	>250N	ASTM D 1000
Adhesion to steel	>250N	ASTM D 1000
Static Load Resistance	Method A 15kg Method B 20kg	EN 12730
Moisture vapour transmission rate	0.1g/m ² /24hr	E96



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