

# GYPROC AIRTITE QUIET

Product Data Sheet



## Standards

Gyproc Airtite Quiet complies with *EN 13279-1 type B5/50/2*, and is manufactured under a quality system independently audited and certified as conforming with *ISO 9001: 2008*.

## Performance

### Fire Protection

Gypsum plasters are non-combustible when tested in accordance with relevant EN and BS standards, achieving Euroclass A1 and satisfying the requirements for Class 0 surfaces in the National Building Regulations. They provide good fire protection due to the unique behaviour of gypsum in fire.

When gypsum-protected building elements are exposed to fire, dehydration by heat (calcination) occurs at the exposed surface and proceeds gradually through the gypsum layer. Calcined gypsum on the exposed face adheres tenaciously to uncalcined material, retarding further calcination which slows as the thickness of calcined material increases. Once the gypsum layer is fully calcined, the residue acts as an insulating layer while it remains intact.

### Effect of Temperature

It is recommended that the background temperature should be at least 5°C and that the plaster should not be subjected to temperatures below 5°C before it has set. Dry bagged plaster is not affected by low temperature. The plaster is not suitable for use in situations where the temperature exceeds 43°C.

### Approximate Coverage

Gyproc Airtite Quiet plaster applied to a nominal thickness of 6mm will give an approximate coverage of approximately 180m<sup>2</sup> per tonne\*.

\*Depending on the straightness of the concrete blockwork.

## Overview

Gyproc Airtite Quiet is formulated to achieve high levels of airtightness in modern dwellings. It is specifically formulated as a parge coat to reduce the air permeability of concrete block backgrounds under the Gyproc GypLyner system, to help meet airtightness regulations as specified in the Irish Technical Guidance Document L.

## Coverage Information

Coverage per bag m <sup>2</sup>	Setting time hours	Water requirement litres	Dry Set weight kg/m <sup>2</sup>	Pallet quantity bags
4.5@ 6mm thickness approx.	Approx 3-4 after mixing	16 per bag	5.4@ 6mm thickness approx.	56 bags

## Storage

The plaster should be stored dry, as the absorption of moisture by any gypsum plaster shortens the setting time and may reduce the strength of the set plaster. Where storage areas have concrete floors, dry timber platforms should be laid and the plaster stored on these. The shelf life of Gyproc Airtite Quiet is 12 weeks.

## Mixing

Gyproc Airtite Quiet is premixed with aggregate and only clean water need be added to prepare it for use. No admixtures should be used. Mix to a normal plastering consistency.

## Installation

Cleanliness is essential, set plaster left in a receptacle from a previous mix will shorten the setting time. This can reduce the strength of the plaster when set. Mixing trays and buckets must be washed thoroughly after each mix. Mechanical mixing may be used, but care should be taken not to mix through the set.

Dry blockwork should be well brushed down to remove any dust or loose particles of mortar, debris, etc. from the surface. Any metal objects such as nails, etc. should be removed from the face and blockwork should be wet down to off-set excessive suction in the background.

### Application

Gyproc Airtite Quiet can be applied directly to open textured medium or dense concrete blocks. Plaster of the correct consistency should be applied with firm pressure and the Gyproc Airtite Quiet brought to a true and level surface by means of a metal straight edge.

Gyproc Airtite Quiet in conjunction with a mechanically fixed lining system, e.g. GypLyner, is designed to improve the acoustic performance of masonry party walls by minimising acoustic leakage through cracks, unfilled joints or block porosity.

When applying Gyproc Airtite Quiet it is recommended that a 6mm coat is applied across the entire surface area of the separating wall to cover all cracks and voids. Gyproc Airtite Quiet should normally be applied to a thickness of 6mm but to a maximum of 11mm in one application.

The product should not be trowelled smooth.

Smooth or low suction background areas such as concrete lintels or smooth faced engineered brick, particularly window or door heads need to be firstly treated with Gyproc ThistleBond-it, and allowed to fully dry for at least 24 hours prior to applying Gyproc Airtite Quiet.

Gyproc Airtite Quiet can also be applied over expanded metal, but where specific air permeability is required, it is prudent to allow for the thickness of the expanded metal to ensure a continuous 6mm parge coat is applied throughout.

### Setting Time

Setting time is 3-4 hours, but may be affected by background suction and environmental conditions.

### Drying

Adequate ventilation is an essential requirement to aid drying out of all plasters. In accordance with I.S. EN/TR 15124:2005 'when the application is finished, the Gypsum plastering should be ventilated until it has dried.' In addition, I.S. EN 13914-2:2005 states that 'if adequate ventilation is not provided during the drying of the plaster, then the strength of the plaster may be impaired and the time at which decoration may start may be delayed.'

### Air-tightness Test Results

The following masonry walls were constructed and a 6mm application of Gyproc Airtite Quiet was applied to one side of same. The air permeability tests were carried out in BSRIA, a UKAS accredited laboratory. Test results on each of the 3 constructions are shown below. The current Technical Guidance Document L, Conservation of Fuel and Energy, Dwellings 2011 require buildings to be constructed to have an upper air permeability performance level of 7 m<sup>3</sup>/h.m<sup>2</sup>.

Type of Blockwork Construction	Air Permeability Performance Level m <sup>3</sup> /h.m <sup>2</sup> (50Pa)	Test Report
215mm wide Block Wall on Flat (440mm x 215mm x 100mm) Blockwall with 6mm Gyproc Airtite Quiet parge coat	0.11	24611d01
100mm wide Block Wall on Edge (440mm x 215mm x 100mm) Blockwall with 6mm Gyproc Airtite Quiet parge coat	0.12	24611d02
215mm wide Cavity Block Wall (440mm x 215mm x 215mm) Blockwall with 6mm Gyproc Airtite Quiet parge coat	0.27	24611d03
<b>Notes:</b> Assumption that the building has an impermeable floor & roof.		

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For a comprehensive and up-to-date library of information visit the Gyproc website at: [www.gyproc.ie](http://www.gyproc.ie)