

WRAPTITE

For Draughtproofing

INTRODUCTION

Making significant improvements to the airtightness of existing buildings has long presented a challenge to designers and contractors. While conventional tapes, sealants and vapour control membranes will undoubtedly reduce air leakage dramatically, adding vapour impermeable layers to sometimes centuries old constructions can alter the way the structure behaves in relation to moisture transport, leading to unintended consequences if not carefully considered. Limiting the ability of older structures to absorb moisture and subsequently dry out can lead to condensation problems and rapid deterioration of building fabric such as stone walls or timber joists.

DESCRIPTION

The vapour permeable wraptite air barrier system resolves many of these issues by allowing an effective air barrier to be retrofitted without significant effect on the moisture transfer through the structure, allowing air leakage to be reduced without trapping moisture.

The Wraptite-SA self adhered membrane can be used to seal any gaps or cracks in building fabric, or to seal uneven joints or gaps between, for example, floors and walls (fig 1) or around existing wood framed windows (fig 2). The Wraptite-SA can also be used in full sheets, adhered directly to external walls (fig 3), to increase the airtightness of the element prior to the application of internal wall insulation systems (fig 4). Used in conjunction with a fully permeable internal wall insulation (such as Spacetherm), the energy performance can be hugely upgraded, without affecting the ability of the building fabric to dry in either direction, maintaining the moisture vapour permeability inherent in many older buildings.

In addition to the self adhered membrane, the wraptite system can be used loose laid over timber floors to substantially reduce drafts through ill fitting or damaged floorboards prior to the application of carpets or laminate/engineers wood flooring (fig 5). As with applications above, this will limit air movement without compromising moisture transfer.

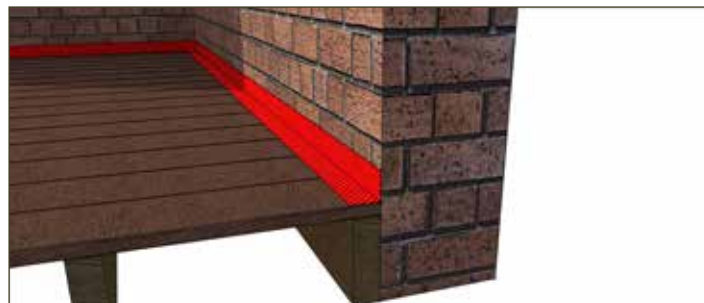


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



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PRODUCT DESCRIPTION

In buildings, air leakage normally manifests itself as uncontrolled flow of air through gaps and cracks in the fabric. The result shows significant reduction in the thermal performance and efficiency of structures.

The construction industry, driven by increasingly rigorous regulations and the overall energy-efficiency agenda, is putting the creation of airtight buildings at the top of the agenda, in refurb as well as new build.

The Wraptite membrane has been developed to provide the airtightness solution for all air leakage problems.

WRAPTITE-SA

Wraptite-SA combines important properties of vapour permeability and airtightness in one affordable self-adhering membrane.

It fully bonds (needing no mechanical attachment) to virtually any substrate, with a key benefit being its ease of installation, negating requirement for sealants or tapes.

Wraptite-SA airtight membrane makes a significant contribution to a building's thermal performance by preventing lateral air movement, but it also contributes to a healthy living environment and a healthy building, thanks to its vapour permeability. With a rating of Sd 0.039, it provides a high degree of vapour permeability in a commercial quality, self-adhered, airtight breathable membrane.

WRAPTITE SYSTEM

The Wraptite system offers the ideal option for a vapour permeable air barrier.

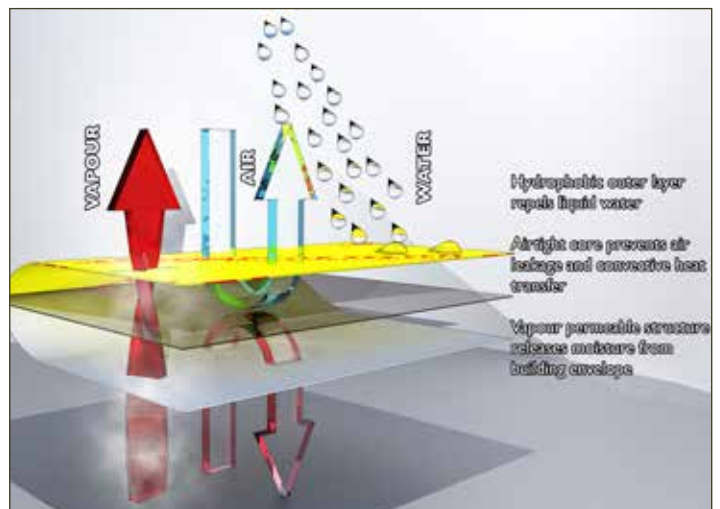
Designed to cost effectively replace traditional airtightness methods, Wraptite is a low-resistance vapour permeable air barrier wall underlay, which is durable, flexible and lightweight, allowing for easy installation. It offers temporary protection against wind-driven rain, snow and dust.

The Wraptite system comprises Wraptite plus Wraptite Tape. Used together these components provide a simplified and robust method of achieving low air leakage rates, particularly when installed on site, as is typical with large scale rainscreen construction, or when sealing junctions between prefabricated building components. By reducing the likelihood of failures to meet designed airtightness levels, the Wraptite System helps ensure "as-designed" performance is achieved, helping to narrow the 'performance gap' between as-designed and actual energy performance. Failure to meet the specified targets can cause substantial reductions in the energy performance of the completed building, as has been identified in many studies of predicted versus actual building energy use.

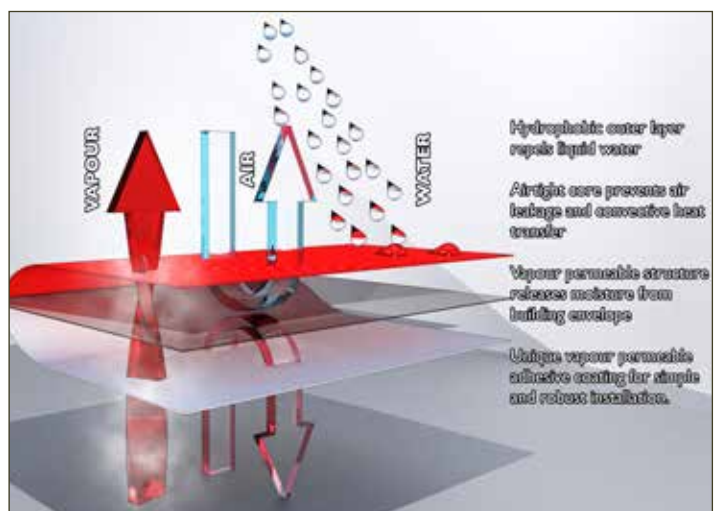
For full product details, please see our Wraptite Brochure.



WRAPTITE TAPE



WRAPTITE



WRAPTITE-SA