



BREATHING WALLS

Puhua International Pte Ltd

We spend an average of 75 per cent of our time indoors. Therefore, the air quality indoors becomes a crucial element to ensure good health. But by some estimates, indoor air can be even deadlier than outdoor air. Indoor air may contain smoke and fungal spores. Certain paints, varnishes and cleaners have been shown to have chemicals harmful to human health as well.

15 years ago, Puhua International was established with the objectives of tackling indoor air pollution and improving the customer's health. After investing countless resources and creating a team of researchers, they have come up with a line of diatomite wall materials.

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An Ancient Solution for a Modern Problem

Diatomites form after diatoms have accumulated for one or two million years. Diatoms are single-cell organisms, which can be found in either seawater or lakes. The diatomites mainly consist of silicic acid, and by using them to make wall materials, it allows the wall to have nanopores and micro-fibres. With diatomites, the walls can have 5000 to 6000 times more nanopores than charcoal. To ensure that the absorption powers of the diatomites can last, Puhua's scientists utilised photocatalysis, an innovative principle where the diatomites are combined with titanium oxide. With this, the diatomite products can chemically combine or decompose with substances according to the amount of daylight the product receives. With that, Puhua International is able to create Breathing Walls – walls that could purify the air, absorb and release moisture, as well as capture toxic and volatile elements.



The Breathing Walls by Puhua International comes in various designs, so it's easy to suit it to your needs.

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Beautiful yet Tough

Diatomites are the cornerstone of their products. Through the use of diatomites, the Breathing Wall by Puhua can now regulate humidity, cancel out noise, control the temperature and insulate against heat. These effects can last for more than 20 years since there are natural inorganic plant colouring and fibres in the walls which prevent discolouration. Customers can now expect clean air within their homes with Puhua International's Breathing Walls.

In addition, the Breathing Walls is one of the rare wall materials that could be flattened or can reflect light. The diatomite walls can mimic the look of streaming water, water ripples, fabric. Complete with a wide spectrum of colours, customers can also express their individuality too.