

## Technical Data Sheet

### *ECOBead® PLATINUM® EPS Polystyrene Insulation*

Ecobead Platinum Cavity Wall Insulation is an expanded polystyrene (EPS) material injected in bead form with a bonding agent, for use in external cavity walls with masonry inner and outer leaves with cavity widths of not less than 50 mm, in new and existing domestic and non-domestic buildings, with height restrictions in line with national Building Regulations.

## Sustainability

Springvale advocate responsibility to the environment as part of their Environmental policies and Environmental Management System to BS EN ISO 14001 and as members of the British Plastics Federation (BPF), participates in the recycling post-construction EPS scheme.

## Expanded Polystyrene (EPS)

Expanded polystyrene (EPS) is an excellent choice for use as insulation and other applications, consisting of 98% air means only 2% of any product is polystyrene material.

With its outstanding thermal insulation qualities EPS is a first choice material for numerous construction applications. Using EPS can reduce CO<sub>2</sub> emissions by up to 50%, offsetting its small carbon footprint and giving maximum return for minimal resource and can also make a significant contribution to reducing fossil fuel use for heating and cooling of buildings which in turn, helps reduce SO<sub>2</sub> and SO<sub>3</sub> emissions, a major cause of acid rain.

Using less than 0.1% of global oil consumption to manufacture EPS, it can save up to 200 times its own resource in thermal energy saving, bringing considerable energy and resource-saving benefits.



The amount of carbon monoxide and particulates given off by EPS during combustion is a small fraction of that emitted by wood or cardboard.

The manufacture of EPS is safe for the environment as only steam is used during the manufacture process. There is no waste in the process as all off-cuts are re-cycled back into the production process.

EPS uses Pentane as its blowing agent and is HFC, CFC and HCFC free. Pentane has a low Global Warming Potential (GWP) of less than five and the EU does not register pentane as a substance hazardous to human health or the environment.

The lightweight nature of EPS helps to minimise environmental impacts and costs associated with the movement of heavier alternative materials.

The inert and non-toxic nature of EPS provides stability in landfill because it does not biodegrade and leach chemicals into the water system or gases into air that could contribute to global warming.

Life-cycle analyses demonstrate that EPS has exceptional qualities as a construction material. It has a Zero Ozone Depletion Potential (ODP) and a low Global Warming Potential (GWP) and achieves the highest possible A-Plus summary rating in the BRE Global Green Guide to Specification.



## Highly Durable

A durable, inert, non-toxic, rot proof and 100% recyclable product, the performance of EPS is expected to last at least the life time of the building in which it is used.

## Excellent Thermal Performance

Ecobead Platinum in a 200mm wide cavity can achieve U Values as low as 0.14 W/m<sup>2</sup>K. Contact our Technical department for further information.

## Freedom of Design

Ecobead Platinum is suitable for use in external cavity masonry walls up to and including 12 metres in height, in line with national Building Regulations, with cavity widths of not less than 50 mm, in new and existing domestic and non-domestic buildings.



# Technical Data

Thermal conductivity	0.033 W/mK
Water penetration	Ecobead Platinum will resist the transfer of water across the cavity
Condensation	Ecobead Platinum will contribute to limiting the risk of condensation
Behaviour in relation to fire	Use of Ecobead Platinum does not prejudice the fire resistance properties of the wall

## Certification

Springvale Ecobead Platinum cavity wall insulation has a third party accreditation, information can be found on our certification -

[www.springvale.com/downloads](http://www.springvale.com/downloads)

## Quick & Easy Installation

The product can only be installed by Springvale & BBA approved installer companies. For further information contact the area representative, details can be found at -

[www.springvale.com/contact](http://www.springvale.com/contact)

Ecobead Platinum should not come in direct contact with hot water pipes and electrical cables should be enclosed in suitable conduit e.g. rigid PVC.

## Handling & Storage

The Ecobead must be stored in dry conditions, protected from prolonged exposure to sunlight and must not be exposed to open flame or other ignition sources. Care must be taken to avoid contact with solvents and materials containing organic components.

The adhesive must be stored at 2 - 30°C and not allowed to freeze.

## Want to know more?

See more about our Ecobead product at - [www.ecobead.co.uk](http://www.ecobead.co.uk)

Contact Technical or Sales for more information.

Phone - **01457 863 211** or Email - [technical@springvale.com](mailto:technical@springvale.com)

