

BIOCHEM show case

Low impact construction materials with improved insulation properties

Problem

In the UK, the construction and use of buildings accounts for over 50% of the carbon dioxide produced. Studies have shown that up to 200kg of CO₂ is emitted in the production of each square metre of walling for houses alone equating to 40 tones for the walls of a typical house.

Technical solution

Lime Technology has launched Tradical Hemcrete, a unique blend of specially prepared hemp shiv and a lime based binder; which together form a bio-composite building material. The hemp, which forms the key element in these products, is grown and harvested in the UK and is a low energy impact crop. The Hemcrete is mixed on site and is applied by spray providing an airtight coating with very high insulation.

Benefits

- **Material locks up around 110kg of CO₂ per metre of wall**
- **Emission savings of 250kg of CO₂ per metre of wall**
- **Savings of over 50T of CO₂ in total emissions for a typical house**
- **Coating has excellent airtightness and vapour permeability**
- **Materials from renewable sources**

Additional information

Lime Technology <http://www.limetechnology.co.uk/hemcrete.htm>