Liquid Plastics

PRODUCT DATA SHEET

Decotherm®

HIGH PERFORMANCE PIR INSULATION BOARD

PRODUCT DESCRIPTION

Decotherm® Insulation is faced on both sides with a wet lay coated glass fibred tissue autohesively bonded to the insulation core during manufacture.

The core of Decotherm® Insulation is a high performance CFC/HCFC - free rigid polyisocyanurate (PIR) insulant of typical density 32kg/m³.

Decotherm® Insulation is manufactured without the use of CFC's/HCFC's and has zero ozone depletion potential. Decotherm® also has a low global warming potential (GWP).

USES

Decotherm® Insulation is for use in the Sika Liquid Plastics Cold Fusion Bonded Built Up Roofing System.

CHARACTERISTICS / ADVANTAGES

- Easy to handle and install
- Ideal for new build and refurbishment
- Manufacture with a blowing agent that has zero ODP and low GWP
- Thermal conductivity 0.024W/m.K
- Pre-Bonded Tapered Decotherm® Insulation is available

APPROVALS / STANDARDS

- British Board of Agrément (BBA) certified No 14/15147 BBA Certificate No 06/4359
- CE Marked - Tested in accordance with EN 13165:2012

PRODUCT INFORMATION

Packaging	Decotherm® is supplied in labelled packs shrink wrapped in recyclable polythene
Colour	Light beige faced boards
Shelf Life	Product does not expire if correctly stored
Storage Conditions	The packaging of Decotherm® should not be considered adequate for long term outside protection. Ideally, boards should be stored inside a building. If, however, outside storage cannot be avoided, the boards should be stacked clear of the ground and covered with a polythene sheet or weatherproof tarpaulin. Boards that have been allowed to get wet must not be used.
Dimensions	▪ 1200mm x 60mm (for adhered and mechanically fixed built up roofing systems) ▪ 1200mm x 1200mm (for adhered and mechanically fixed built up roofing systems) ▪ 2400mm x 1200mm (for mechanically fixed built up roofing systems) **Note:** Pre-Bonded Tapered Decotherm® Insulation is also available.

	Please consult Sika Liquid Plastics' Technical Services	
Thickness	1200mm x 600mm	25mm; 40mm; 50mm; 60mm; 70mm; 80mm; 90mm; 100mm; 110mm; 120mm; 130mm
	1200mm x 1200mm	50mm; 60mm; 80mm; 90mm; 100mm; 120mm; 130mm; 140mm; 150mm
	2400mm x 1200mm	110mm; 120mm; 125mm; 130mm; 135mm; 140mm; 150mm
		Other thicknesses are available subject to quantity

TECHNICAL INFORMATION

Thermal Conductivity	0.026W/mK for	<80mm
	0.025W/mK for	≤80mm and <120mm
	0.024W/mK for	≤120mm

SYSTEM INFORMATION

System Structure	**Built-Up Roofing System over Existing Waterproofing**	
	Substrate	Prepare substrate in accordance with the Sika® C-250 Spray applied insulation adhesive or Decostik® Foaming Adhesive, as per the technical data sheets
	Insulation	Decotherm® Insulation bonded with Sika® C-250 Spray applied insulation adhesive or Decostik® Foaming Adhesive, please see the technical data sheets for further information
	Carrier Membrane	S-Vap HD SA Carrier Membrane with Primer 600/610, please see the technical data sheets for further information
	Waterproofing System	Decothane, Decothane Ultra, Sikalastic 625 or 618 - please see the technical data sheets for further information

Built-Up Roofing System for Strip Back or New Build (Adhered System)	
Substrate	Prepare substrate in accordance with the Primer 600/610 technical data sheet
Vapour Control Layer	S-Vap HD SA please see the technical data sheet for further information
Insulation	Decotherm® Insulation bonded with Sika Liquid Plastics Decostik® SP, Sika® C-250 Spray applied insulation adhesive or Decostik® Foaming Adhesive, please see the technical data sheet for further information
Carrier Membrane	S-Vap HD SA Carrier Membrane with Primer 600/610, please see the technical data sheet for further information
Waterproofing System	Decothane, Decothane Ultra, Sikalastic 625 or 618 - please see the technical data sheets for further information

Built-Up Roofing System for Strip Back or New Build (Mechanically Fixed System)	
Substrate	Prepared substrate to be clean, dry and level
Vapour Control Layer	S-Vap 500E please see technical data sheet for further information
Insulation	Decotherm® Insulation fixed with the appropriate Sika Liquid Plastics Mechanical Fasteners, please see the technical data sheet for further information
Carrier Membrane	S-Vap HD SA Carrier Membrane with Primer 600/610, please see the technical data sheet for further information
Waterproofing System	Decothane, Decothane Ultra, Sikalastic 625 or 618 - please see the technical data sheets for further information

APPLICATION INSTRUCTIONS

APPLICATION METHOD / TOOLS

Boards can be cut by using either a fine toothed saw, or by scoring with a sharp knife, snapping the board over a straight edge and then cutting the facing on the other side. Ensure accurate trimming to achieve close-butt joints and continuity of insulation at details.

Insulation boards should always by laid break-bonded, either with their long edges at right angles to the edge of, or diagonally across the roof, with joints lightly butted. On profiled metal decks, the boards should either be laid with the long edges at right angles to the trough openings, or diagonally across the corrugation line, with joints lightly butted. In all cases there should be no gaps between boards, at abutments or other details.

A night seal must be formed in accordance with good roofing practice at the completion of each day's work or whenever work is interrupted for extended periods of time. A night seal must be made to prevent water penetration into the roof construction.

FURTHER DOCUMENTS

Installation works to be carried out only by specialist roofing contractors.

Temperature limit will depend on waterproofing membrane installation limits. Use of some ancillary products eg adhesives is limited to temperatures above +5°C.

Please observe information give by Product Data Sheets.

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

TECHNICAL ENQUIRIES
Tel: 01772 255015
Web: www.liquidplastics.co.uk
Twitter: @LiquidPlastics

SIKA LIMITED
Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited