

KOREFILL

KORE Fill is a bonded bead, complete cavity wall fill insulation system for application in new and existing buildings.



Description

KORE Fill is expanded polystyrene injected in bead form into a cavity to form an insulating mass. The bead solidifies in the cavity as it is injected along with a special bonding agent. This insulating mass significantly reduces thermal transmittance across the cavity. Filling the cavity completely with KORE Fill will not diminish the original function of the cavity. The cavity will still be able to breathe, the bead will not absorb water and will not allow the transfer of water across the cavity to the inner leaf.

KORE Advantages

Excellent thermal performance, immediate energy saving results, specialist insulation installers, complete insulation fill every time, concrete construction benefits.

Installation

The bead and bonding agent is injected, through drill holes, into the cavity using specifically designed equipment. The material packs to a uniform density inside the cavity. Once the proper drilling pattern and injection sequence is followed the cavity will be completely filled.

Installation of the KORE Fill Cavity Wall Insulation must only be carried out by Airpacks Ltd or by our approved Installers. For details of your local installer please contact Airpacks Ltd.

Physical Properties

Properties	Units
KORE Fill Bead	
Thermal Conductivity	0.033 W/mK
Density	12 kg/m ³
Bead Size	3–8 mm
KORE Fill Bonding Agent	
Density	1.10
Quality	Free from impurities or lumps. Residue on 177 micron sieve max 20ppm
Form	Liquid Suspension
Colour	White
Odour	Mild Sweet
Viscosity	20–30 cP @ 20°C
Freezing Point	0°C
Boiling Point	100°C
Min Operating Temperature	5°C
pH	8.5–9.5

THERMAL BRIDGING & AIRTIGHTNESS SOLUTIONS

Roof Junction



Cill Detail



Jamb Detail



Header Detail



For further details on thermal bridging and airtightness at all junctions visit WWW.KORE-SYSTEM.COM

U-Values

The thermal performance of KORE Fill is only limited by the width of the cavity, the wider the cavity the greater the U-Value that can be achieved. (Calculation Method I.S. EN ISO 6946.)

Cavity Width KORE Fill(mm)	Render 1300 kg/m ³ Block 2000 kg/m ³ Block 2000 kg/m ³ Plaster 1200 kg/m ³	Render 1300 kg/m ³ Block 650 kg/m ³ Block 2000 kg/m ³ Plaster 1200 kg/m ³	Brick 1700 kg/m ³ Block 2000 kg/m ³ Plaster 1200 kg/m ³	Brick 1700kg/m ³ Block 650 kg/m ³ Plaster 1200 kg/m ³
100	0.29	0.26	0.29	0.26
105	0.28	0.25	0.28	0.25
110	0.27	0.24	0.26	0.24
115	0.26	0.23	0.25	0.23
120	0.25	0.22	0.25	0.23
125	0.24	0.22	0.25	0.22
130	0.23	0.21	0.23	0.21
135	0.22	0.20	0.22	0.20
140	0.22	0.20	0.21	0.20
145	0.21	0.19	0.21	0.19
150	0.20	0.19	0.20	0.19
155	0.20	0.18	0.20	0.18
160	0.19	0.18	0.19	0.18
165	0.19	0.17	0.18	0.17
170	0.18	0.17	0.18	0.17
175	0.18	0.16	0.17	0.16
180	0.17	0.16	0.17	0.16
185	0.17	0.15	0.17	0.16
190	0.16	0.15	0.16	0.15
195	0.16	0.15	0.16	0.15
200	0.15	0.14	0.15	0.15

Note: It is assumed that cavity walls containing full-fill bonded bead will be constructed in accordance with the requirements of the 1997 to 2007 Building Regulations.

CERTIFICATION

KORE Fill successfully received IAB Certification proving compliance with Building Regulations 1997–2007. Certificate Number 07/0293.