Version 01 08.03.21

LOGICFOAM
LF-105 CAVITY WALL
Cavity Wall Stabilisation and Insulation System

PRODUCT DESCRIPTION

LF-105 CAVITY WALL is a totally CFC & HCFC FREE two component, 1:1 mix ratio rigid polyurethane foam which complies with the requirements of BS 7457:1994 for the stabilisation and thermal insulation of masonry cavity walls and holds an Agrément Board Certificate. It is required that LF-105 CAVITY WALL is installed in accordance with BS 7456:1991 Code of Practice by approved installers.

USES

LF-105 CAVITY WALL is used for the stabilisation of masonry cavity walls by strongly adhering the inner and outer leaves together and as such is a convenient and cost effective alternative to metal cavity tie replacement. In addition, as a consequence of the excellent thermal insulation properties of the foam, "U" values of 0.33 Wm^2K are achieved in a 65mm cavity of standard construction, and 0.22 Wm^2K in a 100mm cavity of standard construction. Even better values can be realised through choice of special blockwork, etc.

EQUIPMENT

LF-105 CAVITY WALL can be processed through any suitable mobile high pressure plural component polyurethane foam dispensing equipment.

REACTIVITY PROFILE

Laboratory test results (typical) at 20ºC:-

Cream time	13 - 18 seconds
Rise time	155 ± 15 seconds
Free rise density	32 ± 1 kg/m^3

STORAGE, HANDLING AND PERSONAL PROTECTION

The recommendations in our Safety Data Sheet for this product must be followed at all times.

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PHYSICAL PROPERTIES

PROPERTY	VALUE	METHOD
* Thermal conductivity, aged, <80mm thick	0.027 W / mK	BS EN ISO 13165
* Thermal conductivity, aged, 80-119mm thick	0.026 W / mK	BS EN ISO 13165
* Thermal conductivity, aged, ≥120mm thick	0.025 W / mK	BS EN ISO 13165
Compressive strength - normal to major plane: (50mm cavity)	210 kPa	BS 4370:Pt1
Shear strength - parallel to major plane: (50mm cavity)	241 kPa	BS4370:Pt2
Dimensional stability linear change at: 24 hrs @ -15ºc 24hrs @ +70ºC	 - 0.2 / 0 / 0.2% (L / W / T) 0.3 / 0.4 / 0.1% (L / W / T)	 BS 4370:Pt1 BS4370: Pt2
Water Vapour Permeability parallel to foam thickness	5.9ng / (pa.sm) max	BS4370: Pt2
Closed Cell Content	90%	BS4370: Pt2
*Burning Characteristics	Less than 40mm	BS4735
*Tensile Adhesion to Masonry Aerated Concrete Brick Breeze Block Appearance Density	 51 kPa 155 kPa 166 kPa Uniform, fine cell structure 42 kg/m³	 BS4757 BS4757 BS4757

*Tests carried out independently by UKAS approved laboratories

LF-105 CAVITY WALL SYSTEM COMPONENTS

Resin SG @ 20ºC	1.15
Resin Viscosity @ 20ºC	400cps
Iso SG @ 20ºC	1.24
Iso Viscosity @ 20ºC	350cps
Ozone Depletion Potential (ODP)	ZERO
Shelf Life	12 months

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