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**Technical Data  
Sheet 600**

<b>Revision : 1</b>
<b>Date : 25/04/2003</b>
<b>Revision date : 18/10/2007</b>

**SPRAYED LIMPET MINERAL WOOL**

**FABRICANT :**

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**1. DESCRIPTION**

The Limpet range of sprayable insulation is manufactured of mineral wool and selected inorganic fillers and binders. All Limpet products are totally asbestos free.

Three products are available:

LIMPET GP - A general purpose insulation for fire protection and acoustic correction use.

LIMPET HT - A product for use as thermal insulation at higher temperatures, including use on process plant at continuous hot face temperatures up to 650°C.

**2. APPLICATION**

All Limpet sprays are designed for installation by "dry" spray techniques and should only be applied by the trained applicators of an experienced specialist contractor operating in accordance with the Sprayed Limpet Mineral Wool System Manual.

**3. DENSITY**

Applied dry density will vary according to end use:

	Density (kg/m <sup>3</sup> )
Limpet GP	200 – 300
Limpet HT	200 - 300



#### 4. ACOUSTICS

Limpet GP provides a jointless insulation coating for acoustic control. Limpet GP is used to reduce the overall noise lever (reverberation) in areas such as hotel foyers, bars, canteens and lecture theatres.

Measured sound absorption coefficients for a 25mm layer of sprayed Limpet insulation are :

Mean Frequency (Hz)	Absorption Coefficient
250	0.35
500	0.80
1000	1.00
2000	1.00
4000	1.00

#### 5. THERMAL CONDUCTIVITY

When tested at a mean temperature of 10°C, Limpet Sprays have the following values :  
Limpet GP, HT           0.040 W/mK

When tested at elevated temperatures, with a cold face of 20°C Limpet HT has the following characteristics.

Mean Temperature (°C)	Thermal Conductivity (W/mK)
210	0.074
260	0.085
310	0.097

#### 6. APPROVALS

Limpet spray mixes have been examined by many of the leading national and international test houses and a wide range of approvals are available including DNV and Lloyds for maritime use.

#### 7. FINISHES

Limpet GP can be left either as sprayed or with a tamped stippled finish which can be coated with Limpet LD3. If a particularly hard surface is required, Limpet BD6 armouring compound can be applied.

Limpet HT can be coated with Limpet LD3 or Limpet BD6. When used in an industrial environment where the ingress of oil into the surface finish must be prevented, a scrim cloth, embedded in a suitable oil resistant mastic should be used.



## 8. FIRE PERFORMANCE

As applied, all Limpet sprays are rated « Non-Combustible » to BS 476 : Part 4 : 1970 and comply with the performance requirements for « Class 0 » as defined in Building Regulations.

Limpet GP has been comprehensively tested for up to 4 hours in a wide range of fire resistance situations including :

Elements of Structure

- Steel beams and columns
- Concrete beams and columns
- External walls
- Floors
- Ceilings
- Cavity Barriers

Minimum thickness (mm) required to confer stated fire resistance to structural steel:

Hp/A (m <sup>-1</sup> ) up to	Fire Resistance Hours					
	0.5	1.0	1.5	2.0	3.0	4.0
20	10	10	10	10	13	18
30	10	10	10	11	18	25
50	10	10	10	16	26	36
70	10	10	14	20	32	44
90	10	10	16	23	37	51
110	10	10	18	25	40	56
130	10	11	19	27	43	60
150	10	11	20	29	46	63
170	10	12	21	30	48	66
190	10	12	22	31	50	69
210	10	13	22	32	52	71
230	10	13	23	33	53	73
250	10	13	24	34	54	75
270	10	14	24	34	55	76
290	10	14	24	35	56	78
310	10	14	25	36	57	79

Notes : Linear interpolation is permissible between values of Hp/A.

The above thicknesses apply for beams only. When column protection is called for, please consult our specialist staff.

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## 9. DIMENSIONS

Limpet spray mixes are supplied in strong compression bales, packed in polythene sacs.

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## 10. PRICE UNIT

Per tonne  
See price list

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## 11. PACKAGING

Limpet spray mixes are normally supplied on pallets containing 56 bales of about 12 kg/bale.  
Total weight pro palet:  $\pm$  670 kgs

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## 12. TECHNICAL ADVICE

A technical advisory service is available to discuss any potential application of our products.  
Please contact +44(0)1482 3487 71 (Thermica UK) or +32(0)69 77 83 20 (Nestaan Belgium).

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