

Uniclass L673	EPIC F732
CI/SfB	V (M2)+(P2)

Promat



PROMASPRAY® T

Mineral Wool Cement Mix Spray

construction applications



www.promat-spray.com

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INTRODUCTION

PROMASPRAY® T is a dry spray applied, single pack factory controlled premix, based on a mixture of mineral wool and cement binders, for internal use or when protected from direct exposure to the weather.

PROMASPRAY® T is primarily used on concrete soffits and metal decks.

The application of PROMASPRAY® T provides an economical and joint-free barrier to thermal transmission and offers excellent sound absorption. Building types that will benefit from the use of PROMASPRAY® T include a wide range of educational, leisure and entertainment centres or commercial projects, including the thermal insulation of ground floor car parks.

Properties and performance	
Colour and finish	Off-white. Surface can be textured or tamped
Minimum practical thickness	10mm
Theoretical coverage	103m ² /tonne at 65mm thickness
Number of coats	One or more as required
Cure	By hydraulic set
Initial set	24 hours at 20°C and 50% RH
Density	200kg/m ³ ± 15% for fire resistance and sound absorption 145kg/m ³ ± 15% for thermal insulation
Combustibility	A1 to EN 13501-1
Flame spread	Class 0 as defined by the Building Regulations
Thermal conductivity	0.041W/mk
Smoke generation	Does not contribute to smoke generation
pH value	9
Sound absorption	See TABLES 1 and 2
Sound insulation	See TABLE 3

ADVANTAGES

Durable, lightweight coating that offers combined thermal and acoustic properties in addition to fire protection of concrete. Can be sprayed around any complex shape.

FIRE PROTECTION THICKNESS

Fire resistance tests to ENV 13381-3 have been carried out on PROMASPRAY® T to assess the products performance used to provide fire protection to a load bearing concrete assembly. Contact Promat UK Technical Services Department for further information.



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SOUND ABSORPTION TEST

PROMASPRAY® T has been extensively tested and used as a medium for absorbing sound, and being spray applied presents a monolithic surface.

Results from sound absorption tests on PROMASPRAY® T are shown in TABLE 1.

Calculated results for PROMASPRAY® T thicknesses, in range from 40mm to 160mm, are shown in TABLE 2.

TABLE 1. PROMASPRAY® T – Results from sound absorption tests (tested according to EN ISO 384 (2004) and 11654 (1997))

Thickness	Substrate	Frequency						Weighted sound absorption coefficient (α_w)
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
		Absorption coefficient (α_s)						
40mm	Solid	0.23	0.50	0.73	0.80	0.89	0.98	0.75
160mm	Solid	0.56	0.80	0.90	0.97	1.0	1.03	1.0

TABLE 2. PROMASPRAY® T – Sound absorption coefficients (calculated results)

PROMASPRAY® T Thickness	Sound Absorption Coefficient (α_w)
40mm	0.75
50mm	0.75
60mm	0.80
70mm	0.80
80mm	0.80
90mm	0.85
100mm	0.85
110mm	0.85
120mm	0.85
130mm	0.90
140mm	0.90
150mm	0.90
160mm	0.95

TABLE 3. Sound Insulation tests (tested according to EN ISO 140-1 (1997), 140-3 (1995), 717/1 (1997) and EN 20140-2 (1993))

Frequency (Hz)	140mm Concrete Slab and PROMASPRAY® T 160mm R (dB)	140mm Concrete Slab R (dB)
125	42.1	39.2
250	35.4	46.1
500	55.3	54.5
1000	60.7	61.3
2000	68.8	68.6
4000	80.1	75.3
R_w (C; C_{tr})	R_w (C; C_{tr})	ΔR_{w+C}
51 (-2;-7) dB	58 (-2;-8) dB	-7 dB



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THERMAL INSULATION THICKNESS

The thermal insulation requirement for a building can be expressed as a U-value. Part L of the Building Regulations provides guidance according to building type.

Promat is able to calculate the thickness of PROMASPRAY® T required in order to achieve the specified U-value of a construction. In order to do so the following information is required:

- Specified U-value to be achieved.
- Detailed section showing the build up of the construction to be insulated.
- Please note: Reinforcement may be required according to insulation thickness. Contact Promat Technical Services for further information.

PREPARATION

Typical substrates	Concrete soffits, metal decks, steel and concrete structural frames, and return air plenums
Substrate preparation	The substrate shall be clean, dry and free from dust, loose millscale, loose rust, oil and any other conditions preventing good adhesion All surfaces should be prepared by the application of Promat BONDSEAL®

APPLICATION

Initial steps	Application of PROMASPRAY® T must be carried out by an applicator recognised by Promat and applied in accordance with the installation guide available from Promat
Methods	PROMASPRAY® T is mixed with potable water at the nozzle of a spraying machine approved by Promat
Limitations	PROMASPRAY® T may be applied when the substrate and air temperatures are at least 4°C and rising, and must be maintained at that temperature for 24 hours before, during and 24 hours after application. Maximum substrate and air temperature is 45°C Substrate temperature should be at least 2°C above dew point temperature



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QUALITY ASSURANCE

Promat operates a quality system in accordance with BS EN ISO 9001: 2008 and has received full accreditation to these standards.

Operating to these standards means that all activities, which have a bearing upon quality, are set out in written procedures. Systematic and thorough checks are made on all materials and their usage. Test equipment is subjected to regular checks and is referred back to national standards.

The information given in this data sheet is based on actual tests and is believed to be typical of the product. No guarantee of results is implied however, since conditions of use are beyond our control.

HEALTH AND SAFETY

Adequate ventilation must be provided during use. Avoid contact with the skin and eyes by using eye protection, gloves, barrier cream and a face mask.

If the product comes into contact with the skin, wash immediately with soap and water. If the eyes are affected, flush with plenty of water and seek medical attention immediately.

A safety data sheet is available from Promat upon request.

Promat activities are conducted with due regard to all statutory requirements with appropriate safeguards against exposing employees and the public to health and safety risks.

PACKAGING

20kg bags.

STORAGE

Above ground and kept dry.

SHELF LIFE

Maximum 12 months.

ENVIRONMENTAL

Do not discharge into drains, watercourses or soil.

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