

Technical Data Sheet

SonaSpray[®]K-13



Fire performance ratings

All our products significantly better the new fire requirement required under the updated Approved Document B.

European fire test by Efectis Nederland:
B – s1, d0

UK fire test by Warrington fire research:
Class 0 to BS476 Part 6
Class I to BS476 Part 7

Full fire test reports available on request.

Note: Always insist on obtaining a copy of the fire test report before using a product.

Its Class 0 to BS476 & B-s1,d0 fire rating provide significant benefits over the new Approved Document B requirements by providing little to no smoke and absolutely no droplets, assisting in the safe escape of occupants.

Visit our website for more information on the fire properties of SonaSpray and the new Approved Document B requirements.

Acoustic DATA:

SonaSpray K-13 can be tailored to meet your specific project acoustic needs. There is a choice of finish and you can select texture, colour and acoustic performance. SonaSpray K-13 can be applied at variable thickness and variable areas to provide a designed acoustic ambience. It is spray applied to the full thickness in one application.

For the ultimate acoustic combination in sports halls, use SonaSpray K-13 on standard plain non-perforated deck with the new Oscar Evo-Panel at low level. The Oscar Evo-Panel is the first acoustic panel designed specifically for use at low level in high impact areas. Positioning these at low level prevent sound flutter off lower walls meaning you require 35% less Evo-Panels than standard acoustic panels at high level. Sport England compliant.

"Changing spec from standard acoustic panels at high level and replacing perforated metal deck in our sports hall with plain galvanised metal deck treated with SonaSpray K-13 has saved us a fortune & time in the programme. Everyone has commented on how quiet the sports hall is now".

A large well-known Main Contractor.

SonaSpray K-13 standard absorption coefficients

Depth	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	α_w
16mm	0.10	0.40	0.90	0.95	1.00	1.00	0.85	0.70
25mm	0.20	0.55	0.95	1.00	1.00	0.95	0.90	0.85
38mm	0.20	0.65	1.00	1.00	1.00	1.00	0.95	0.95
50mm	0.35	0.80	1.00	1.00	1.00	1.00	0.95	1.00
70mm	0.40	1.00	1.00	1.00	1.00	1.00	1.00	1.00
76mm	0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Test DATA certified by TNO Technical University Delft NL. Tests were on a solid backing. A panel backing with air space behind the panel will change absorption; normally there is improved absorption at low frequency. Substrates likely to provide increased performance include plasterboard with the use of an air gap behind, rib deck or profiled metal sheet. Please contact Oscar Acoustics' technical department for free design assistance.

Ideal for rain noise reduction.

Quality assurance

- SonaSpray is manufactured by ICC to ISO 9001.
- Installed using a four stage Oscar Acoustics quality assurance plan.

Oscar was established in 1978; this experience enables us to provide a well detailed, quality installation that stands the test of time. From specification to installation, everything is kept

in-house. Oscar Acoustics only use qualified in-house operatives who specialise in installing our systems to ensure high standards are maintained.

Design assistance

- BIM Objects available for every product.
- All products are included within all current NBS software.
- Recessed & surface mounted items possible – see website for more information.
- Standard detail drawings for most situations.
- Bespoke detailing solutions possible.

Environmental

The SonaSpray range contributes towards many sustainable design and health certification systems including BREEAM, SKA, Living Building Challenge and adds up to 17 points towards the LEED (Leadership in Energy and Environmental Design) rating of a project.

The SonaSpray range achieves M1 certification as Low Emitting Building Materials. This is the best possible classification.

SonaSpray finishes are compliant with CDPH/ CA Section 01350 and are GREENGUARD Gold Certified for Indoor Air Quality. GREENGUARD Gold Products are now confirmed to show compliance with BREEAM rating system HEA Indoor Air Quality and ensure that a product has met some of the world's most rigorous and comprehensive standards for low emissions of VOC's into indoor air. The range is also covered by an Environmental Product Declaration in accordance with ISO 14025 and meets the requirements of the Living Building Challenge and LEED.

Cellulose, the primary raw ingredient of SonaSpray, contains wood, cotton and other rapidly renewable natural resources. These materials can effectively lower the carbon footprint of the building project by sequestering rich stores of carbon for the life of the structure or application.

Oscar Acoustics - ISO 14001 accredited

Oscar Acoustics have taken steps to reduce our environmental impact and demonstrate our commitment to protecting the environment by achieving ISO 14001 certification.



Certificate No:353522020

Thermal

SonaSpray insulates by creating dead air spaces macroscopically between and within the hollow cellulose fibres. Testing on actual buildings demonstrates that sprayed insulation outperforms fibreglass batts that are mechanically retained. 100mm thick $U = 0.32 \text{ W/m}^2\text{K}$

Mass

- Dry Weight of SonaSpray K-13 per 10mm thickness = 0.72 kg/m²
- Wet Weight of SonaSpray K-13 per 10mm thickness = 1.37 kg/m²
- Dry Weight of SonaSpray K-13 per 20mm thickness = 1.44 kg/m²
- Wet Weight of SonaSpray K-13 per 20mm thickness = 2.74 kg/m²

Bonding to substrate

SonaSpray K-13 noise reduction insulation can be applied to virtually any substrate; some surfaces may need priming to control suction. Old surfaces may need a barrier coating to prevent staining from leaching out contaminants whilst the surface is wet.

Colour

Standard Colours: (s) = Stock
(ns) = Non-Stock

SonaSpray fcx: Arctic White (s), White (ns)

SonaSpray fc: Arctic White (s), White (ns), Black (ns)

SonaSpray K-13 Special: White (s), Light Grey (s), Grey (s), Dark Grey (ns), Black (s), Beige (ns), Tan (ns)

SonaSpray K-13: White (s), Light Grey (s), Grey (s), Dark Grey (ns), Black (s), Beige (ns), Tan (ns)

Bespoke colours are manufactured to order. Minimum order quantities apply and square meterage is dependent on the product and thickness of spray. Please send us your colour requirement using a Dulux paint reference and we will respond with quantity, price and colour samples.

Durability

The adhesive used with SonaSpray K-13 noise reduction insulation provides a strong, durable and resilient bond. When fully cured, surface strength of old plaster will typically improve. Fully cured SonaSpray K-13 can improve strength.

Recessed items

Recessed services e.g. spot lighting will require a halo spacer to match the material depth. Oscar Acoustics manufacture and install stainless steel halo spacers to the same size as the hole cut out. Stop beads may be required around openings which again we can supply and install. Specially designed access hatches are also available through Profab, enabling the SonaSpray to continue across the hatch door. Problems can arise from using other hatches. These items are at extra cost and are to be purchased direct from Profab. Please contact Oscar Acoustics for details and item code. Surface mounted fittings e.g. hanging/pendant lights will require pattresses to match the material depth. Please contact Oscar Acoustics for further advice.

Please Note: 90% of flangeless fittings do not work properly with any acoustic finish. If you are specifying a flangeless fitting, please contact Oscar Acoustics for advice.

Where to use

SonaSpray K-13 noise reduction insulation can be quickly and effectively applied to any prepared surface and construction configuration. This allows minimum working down time in existing structures with abilities to meet critical deadlines in new construction. SonaSpray K-13 has a coarse surface texture and is suited to large buildings with longer viewing distances; or use close up where a strong texture is required. Other SonaSpray products offer a finer surface texture. SonaSpray K-13 is also ideal in some cases for rain noise reduction within the building.

USA – Factory Mutual Standards research corp. approvals: category I, II, III, IV and V:

Category_I	As an interior finish material of low fire hazard [class I building material] over non-combustible surfaces not requiring automatic sprinkler protection in and of itself.
Category_II	As a protective coating to delay the ignition and reduce the surface burn rate of combustible wood and cellulosic fibre building material.
Category_III	As a protective coating to delay the ignition and reduce the surface burn rate of low melting point, combustible cellular plastic building materials and to protect their dimensional stability for a brief period.
Category_IV	As a protective coating for building structural steel, to supplement automatic sprinkles protection in preventing structural failure temperatures of the steel in high fire hazard occupancies.
Category_V	As a protective coating to the underside of a Class II insulated steel roof deck construction, to sufficiently lower the rate of fuel contribution from the Class II deck components to qualify the construction as Class I so allowing automatic sprinkler protection to be omitted under Factory Mutuals Standards.

Maintenance

SonaSpray K-13 noise reduction insulation can be over-painted or applied with additional coats of SonaSpray. Small areas of damage can be repaired by hand.

If SonaSpray K-13 is disturbed or damaged so that fibre is released into the atmosphere, the resulting contamination is harmless. Maintenance work can be undertaken while the building is occupied. Please refer to COSHH data for detailed product analysis.



Image credits for SonaSpray K-13
1st: Radius Payment Solutions. Overbury & Space Invader Design.
2nd: Ice Arena Wales. Kier Construction & Scott Brownrigg.



ISO 9001 : 2000
Certified by QTS
Quality Registrars, Inc.

SonaSpray is manufactured by ICC, Houston, Tx
ISO 9001: 2000 certification