

Technical Data Sheet

SonaSpray[®] fcx



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

Acoustic DATA

SonaSpray fcx installations are tailored to meet your specific projects architectural acoustic needs. There is a choice of finish and acoustic performance. Special colours can be manufactured for larger installations or for most applications the standard white RAL9010 finish can be refinished with water-based paint. SonaSpray fcx may be applied at variable thicknesses and areas to provide designed acoustic ambience. It is spray and trowel applied, building to the full thickness in one application.

SonaSpray fcx standard absorption coefficients

Thickness	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	α_w
6mm	0.05	0.10	0.40	0.70	0.85	0.90	0.50	0.40
10mm	0.10	0.25	0.60	0.75	0.85	0.70	0.55	0.55
13mm	0.05	0.15	0.50	0.90	1.00	1.00	0.65	0.40
19mm	0.15	0.45	0.80	0.85	0.85	0.95	0.75	0.75

Acoustic testing has been carried out against concrete. 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.

Test DATA certified by TNO Technical University Delft NL. Tests were on a solid substrate. A panel substrate with air space behind the panel will change absorption; normally there is improved absorption at low frequency giving further flexibility in the design of architectural acoustics.

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.



Thermal DATA

SonaSpray is excellent at thermally insulating by creating macroscopic air spaces between and within the cellulose fibres. U-Values can be adjusted to your projects exact requirements by adjusting the spray material depth. SonaSpray insulates by creating dead air spaces macroscopically between and within the hollow cellulose fibres.

Mass

Dry weight 4.50kg/m² at 20mm thick.

Bonding to substrate

SonaSpray fcx 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 of contaminants whilst the surface is wet. Fully cured SonaSpray fcx will not only improve the architectural acoustics but improve the strength of the substrate.

Durability

The adhesive used with SonaSpray provides a strong, durable and resilient bond. Fully cured SonaSpray can improve the composite 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 (drawing available) 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 the 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

Any interior space requiring improved architectural acoustics; SonaSpray fcx can be quickly and effectively applied to most prepared surface and construction configurations helping to achieve minimum working down-time in existing structures, with abilities to meet critical deadlines in new construction. SonaSpray fcx trowelled finish has a durable, flat pitted surface and is suited to walls and ceilings in restaurants (see photos), offices, public buildings, hotels, shopping complexes, conference rooms, large domestic rooms and indoor pools.

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.

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.

Maintenance

SonaSpray fcx can be over-painted or applied with additional coats of SonaSpray. Small damage can be repaired by hand. If SonaSpray fcx 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.



SonaSpray fcx image credits:

1st: HIDE Restaurant. Lusted Green Architects. Andrew Meredith photography.
2nd: Lakeland Arts & Windermere Jetty Museum of boats, steam and stories. Carmody Groarke,



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

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