



Construction

Soundcote

Data Sheet C/TA/C-4

Use with:

Cafco Bondseal
Cafco Decor
Olia Surface

See Data Sheet C/TA/A-1
See Data Sheet C/TA/T-1
See Data Sheet C/TA/T-3



Soundcote was used for acoustical control at Charles De Gaulle Airport, France

Soundcote is a spray applied, single package factory controlled premix, based on a mixture of vitrified aluminosilicate and cement binders, for internal use or when protected from direct exposure to the weather.

Soundcote provides high sound absorption properties. It is used for application on steel and concrete frames, coffered or flat concrete soffits, plastered ceilings, metal decks, and return air plenums.

Freely curved surfaces may be formed in expanded metal or rib lath and then coated with Soundcote. It may also be used as a texture coating over hard, smooth, continuous surfaces.

Building types that will benefit from the use of Soundcote, include a wide range of educational, leisure and entertainment centres or commercial projects.

Properties and performance

Colour and finish

White, with a strongly textured monolithic finish.

Water based emulsion paint may be spray applied on the surface at a later date. Colour should not be added to the Soundcote mix.

Practical thickness

Normally 13 - 25mm overall, but 10mm may be applied if decoration with economy is the main consideration.

5mm maximum thickness per coat.

Theoretical coverage

100m²/tonne at 25mm thickness.

Number of coats

Two or more as required.

Cure

By hydraulic set.

Initial set

2 to 6 hours at 20°C and 50%RH.

Drying time

Subsequent layers of Soundcote must not be applied until the previous layer has set sufficiently as to be firm to the touch.

Properties and performance (cont)

Density	400kg/m ³ ± 15%.
Combustibility	Non-combustible to BS 476: Part 4: 1970.
Flame spread	Class O as defined by the Building Regulations.
Smoke generation	Does not contribute to smoke generation.
pH value	12 - 12.5.
Condensation resistance	Water vapour retention up to 1g per 1g of Soundcote.
Light reflectance	Up to 76%.
Thermal conductivity	0.045W/mK at 20°C.
Sound absorption	Noise Reduction Coefficient (NRC) up to 0.85. See Table 1 below.

Sound insulation thickness

Table 1: Soundcote thicknesses & sound absorption

Soundcote thickness (mm)	Substrate	Frequency (Hz)						NRC Rating
		125	250	500	1000	2000	4000	
13	Metal lath	0.26	0.51	0.98	0.99	0.95	0.86	0.85
13	M. lath/plaster	0.39	0.61	0.61	0.78	0.91	0.91	0.75
25	Solid	0.10	0.40	0.55	0.65	0.70	0.70	0.60
10	Solid	0.02	0.08	0.26	0.60	0.84	0.89	0.45

Preparation

Typical substrates

Concrete soffits, metal decks, and return air plenums.

Substrate preparation

The substrate shall be clean, dry and free from dust, loose millscale, loose plaster, rust, oil and any other condition preventing good adhesion. Certain surfaces, such as those covered with a high gloss paint, may require special treatment. Recommendations for various substrates are as follows:

Poured concrete. Level or fill voids or protuberances with a non-cracking, oil-free patching compound.

Precast concrete. If joints between units are to be levelled, a non-cracking, oil-free patching compound should be used. In areas of high humidity, a sand/cement/adhesive mix is preferable.

Metal lath. Fix in accordance with BS 1369: 1947 and apply a base coat of plaster to give a level, rigid surface.

Insulation board. 9.5mm boards should have bearers and noggings at 600mm centres, and 6mm boards at 400mm maximum centres. Boards should be supported on all four edges and secured by nails or screws at 150mm centres.

Metal sheets. Soundcote should only be applied to rigid, non-flexing galvanised surfaces which must be primed prior to spraying.

Plasterboard. Use 12.7mm minimum thickness foil backed boards supported on all four edges and with bearers and noggings at 400mm maximum centres. All joints should be taped and a sealer applied to prevent delamination of the paper facing. Ensure that there is adequate ventilation of the cavity behind the board to prevent condensation.

Application

Initial steps

Application of Soundcote must be carried out by an applicator recognised by Cafco International and applied in accordance with the Installation Guide available from Cafco International.

Methods

Soundcote is mixed with potable water in a suitable mixer and applied by a suitable spraying machine approved by Cafco International.

Limitations

Soundcote may be applied if the substrate or air temperatures are a minimum of 4°C and rising, and must be maintained for 24 hours before, during and 24 hours after application. Maximum air and substrate temperature is 45°C.

Substrate temperature should be at least 2°C above dewpoint temperature.

Packaging, storage, shelf life

Packaging

25kg bags.

Storage

Above ground and kept dry.

Shelf life

12 months maximum.

Environmental

Do not discharge into drains, watercourses or soil.

Health and safety

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

A full copy of Cafco International's Health, Safety and Environment Policy document is available on request.

See Safety Data Sheet (including COSHH Regulations) Code Reference **Saf-15**.

Quality assurance

Cafco International operates a quality system in accordance with BS EN ISO 9002: 1994, and has received full accreditation by BSI 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.

Further information



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