

SOUND-SHIELD®



SPRAYED ACOUSTICAL TREATMENT

- NRC RATING UP TO 0.75
- IDEAL FOR CONTOURED SURFACES
- AESTHETICALLY PLEASING FINISH

SOUND-SHIELD® is a spray-applied acoustical material that provides high levels of acoustical control on walls and ceilings. The white color and aesthetically pleasing texture of SOUND-SHIELD requires no hand finishing and is ideally suited for a variety of substrates, including contoured surfaces.

This asbestos-free, noncombustible acoustical material is an excellent product for both retrofit and new projects, such as schools, churches, airports, libraries and other public buildings, where noise is objectionable.

EASE OF APPLICATION

SOUND-SHIELD is easily mixed with water in a paddle mixer and spray applied with a rotor-stator type pump. SOUND-SHIELD can be applied in 1/2" (13mm) thicknesses, and built up to a maximum 1" (25mm) in subsequent passes.

FIRE HAZARD CLASSIFICATION

When tested in accordance with ASTM E84 (ULC/CAN 4-S102), SOUND-SHIELD achieves the following Surface Burning Characteristics and is Class A rated:

Flame Spread.....0

Smoke Developed.....5

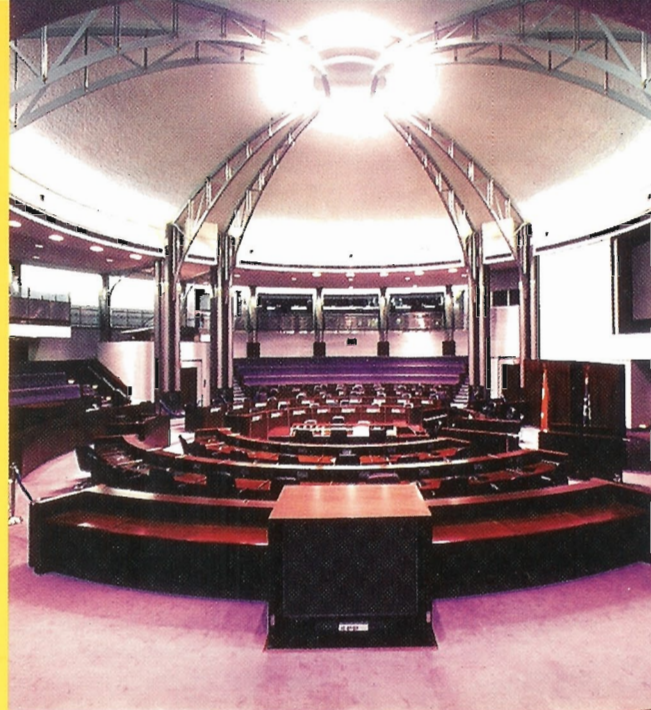
SOUND-SHIELD is classified as noncombustible when tested in accordance with ASTM E136, a requirement of model building codes.

THERMAL PROPERTIES

SOUND-SHIELD applied to side walls and ceilings adds insulating value and acoustical correction at the same time. When tested in accordance with ASTM C518, an R-value of 2.30 is achieved.

ACOUSTICAL PERFORMANCE

The unique formulation of SOUND-SHIELD enables it to provide effective sound absorption of airborne noise transmission. The acoustical performance is as follows:



PHYSICAL PERFORMANCE

ASTM has developed nationally recognized standard tests which evaluate resistance to various forces acting upon building materials during installation and service life.

TABLE OF PHYSICAL PROPERTIES

Characteristic	ASTM Method	Tested Performance *
Light Reflectance	C523	76 %
Combustibility	E136	Noncombustible
Density	E605	23 lb/ft ³ (368 kg/m ³)
Cohesion/Adhesion	E736	200 lb/ft ² (9.6 kPa)
Compressive Strength	E761	8160 lb/ft ² (391 kPa)
Air Erosion Resistance	E859	0.000 g/ft ² (0.000 g/m ²)

* Values represent independent laboratory tests.

Thickness	Substrate	Frequency (Hz)						NCR * Rating
		125	250	500	1000	2000	4000	
		Coefficient Rating						
1/2" (13mm)	Metal Lath	0.87	0.66	0.65	0.71	0.83	0.80	0.70
1/2" (13mm)	Metal Lath & Plaster	0.89	0.46	0.50	0.61	0.78	0.89	0.60
1" (25mm)	Solid Base	0.22	0.39	0.84	1.00	0.85	0.82	0.75
3/4" (19mm)	Solid Base	0.14	0.32	0.63	0.84	0.75	0.71	0.65
1/2" (13mm)	Solid Base	0.06	0.20	0.48	0.54	0.67	0.79	0.45
1/4" (6mm)	Solid Base	0.04	0.12	0.29	0.48	0.56	0.66	0.35

* All values determined by measurements made in accordance with ASTM C423

SOUND-SHIELD 85

SOUND-SHIELD 85, a lime-based product, is also available world-wide through approved and trained CAFCO contractors. This is a two-component system, where lime is added at the time of mixing. For more information on SOUND-SHIELD 85, contact your local CAFCO representative or ISOLATEK INTERNATIONAL.