

Pl ex 3a Frank M. Stumpf dtd 1/15/53

PLAINTIFF'S
EXHIBIT
USM-318

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The Modern Ceiling and Wall... Where Appearance Counts



- Acoustical Control
- Sound Transmission
- Thermal Insulation
- Fireproofing
- Condensation Control

A.I.A. 737-11

Condensation Control

CAFCO SPRAY is a highly efficient agent for the control of condensation. When two coats of adhesive are specially applied, it qualifies under federal specifications as a "Class A" vapor barrier.

Exterior walls and ceilings, especially metal, frequently aggravate condensation problems. When CAFCO SPRAY is applied to the interior surfaces of the exterior walls and ceilings, its insulating quality keeps conflicting temperatures separated, thereby controlling condensation.

CAFCO ADHESIVE and the internal binders of CAFCO SPRAY are impervious to high moisture concentrations. Their strength may be varied to meet any condition of moisture concentration. This flexibility means a custom-tailored agent for individual condensation problems.

APPLICATION: Especially effective in interior areas where heavy moisture conditions prevail, such as swimming pool areas, dairies, metal buildings, ship insulation and wherever surface moisture and rust formation are a problem.



RECOMMENDED SPECIFICATIONS:

SCOPE OF WORK — This specification covers labor, material and equipment necessary to apply CAFCO SPRAY as directed by the architect.

SURFACE — The surface to be sprayed shall be free from oil, grease, rust, or other substance likely to impair adhesion.

PRIMER — The adhesive shall be CAFCO ADHESIVE which when set will not be affected by condensation, steam or moisture.

MATERIAL — The material shall be CAFCO SPRAY Type No. as manufactured by the Columbia Acoustics and Fireproofing Company.

APPLICATION—CAFCO SPRAY shall be applied by the spray-gun method direct to the area specified, to a thickness of having a K factor of 0.26 Btu hr sq. ft./inch of thickness degree F. temperature differential.

FINISH — The surface of the material shall be left natural white in color except as specified in the color schedule. If a color is chosen, the color must be approved prior to starting the job.

Rough Industrial Jobs—The texture shall be rough industrial applied in one coat and over-sprayed with CAFCO ADHESIVE.

Interior Finished Jobs—The texture shall be fine, medium, or coarse travertine according to the specifications, and applied in two coats. The first shall be a leveling coat of $\frac{1}{4}$ " less than the desired thickness, and the second shall be the texturing or finishing coat (approximately $\frac{1}{4}$ " thick).

Caeco Spray Type	Description	Recommended Uses
Type "A"	Normal, compressible fiber mat	Ceilings 8' high and over Walls above a 6' height from the floor.
Type "1"	Crystalline - Slurry Method, hard throughout	For rough treatment as walls up to 6' height engine test cells, a sound transmission problems.
Type "2"	Crystalline - Slurry Method, semi-hard throughout	Same as above but : so hard.
Type "3"	Type "A" material with a $\frac{1}{4}$ " Type "1" finish layer	Where dusting and cleaning are frequently required, around nemost and stairways, etc.
Type "4"	Type "A" material with an over-spray of crystalline slurry — thickness of paint	Where high light reflective qualities are desired and for areas requiring frequent cleaning.

CAFCO SPRAY shall be applied by Company-approved applicators, using standard CAFCO equipment. The workmen shall experienced mechanics and under the supervision of approved applicators. Names of local approved applicators or distributors furnished on request.

COLUMBIA ACOUSTICS and FIREPROOFING COMPANY

Stanhope, New Jersey Phone Netcong 2-1200

Subsidiary of

Sold and Installed By

Use



Where Appearance Counts

Cafco Spray is ...

... a special blend of highly refined mineral fibers and mineral binders applied with a spray gun in combination with a water mist to form a light density blanket from $\frac{1}{4}$ " to $1\frac{1}{2}$ " in thickness.

It appears as a fissured, monolithic surface. It may be applied to large areas, such as walls and ceilings, with no seams, joints or cracks, enhancing its beauty and increasing its practicability. CAFCO SPRAY may be applied to any clean, rigid surface.

CAFCO ADHESIVE is first sprayed over the surface to be treated. CAFCO SPRAY is then applied under pressure with a water mist to the desired thickness. A light tamping to attain correct density

results in a tightly bonded, compressible, functional coating. Where a textured, more decorative appearance is desired, finishing coat is atomized on to effect a fine or coarse travertine or nap surface.

The Crystalline-Slurry Method of Application is employed where a harder and more washable, abrasion-resistant treatment required. CAFCO SLURRY is introduced directly into the fib stream, allowing control of the degree of hardness which may be varied to fit the need.

Whatever the character of the finish desired, from hard-smooth to soft-nap, complete color freedom is available. Water soluble rubber base paint may be sprayed immediately onto the CAFCO SPRAY surface.

Sound Absorption

CAFCO SPRAY is a highly efficient sound absorbing material; its acoustical efficiency is not affected by repeated painting. CAFCO SPRAY can be sprayed on to the thickness desired (see table). Unlike preformed acoustical materials, it can be applied to any clean rigid surface whether curved, recessed or cornered.

APPLICATION: Its acoustical values make it especially advantageous in restaurants, schools, churches, auditoriums and hospitals, as well as factories and other commercial and public buildings where any acoustical problem exists.

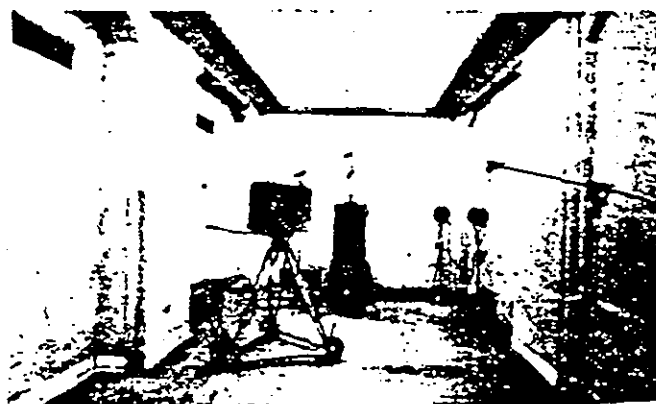
SOUND ABSORPTION CHARACTERISTICS

Thickness	Mounting	Coefficients						Noise
		128	256	512	1024	2048	4096	Reduction Coefficient
$\frac{1}{2}$ "	Solid	.38	.20	.57	.73	.75	.85	.60
$\frac{3}{4}$ "	Solid	.30	.33	.72	.85	.86	.90	.70
1"	Solid	.38	.66	.86	.92	.90	.94	.85
1"	Solid painted	.48	.67	.86	.90	.92	.96	.85
$1\frac{1}{2}$ "	Wire lath	.28	.79	.84	.85	.85	.85	.85

Sound Transmission

CAFCO SPRAY effectively reduces the transmission of sound through walls and ceilings. The Crystalline-Slurry Method of Application is recommended because: (1) the hard surface is a more efficient sound barrier; (2) it can be easily washed; (3) it is abrasion-resistant.

APPLICATION Engine test cells, broadcasting and television studios, apartment houses, offices, theaters, laboratories, or wherever external noises are objectionable.



OTHER INSULATING PRODUCTS for application up to 1800° F. —

Cominco Insulating Cement, Industrial Felts, Blankets,
Granulated and Loose Wool

THE MODERN CEILING AND WALL COMBINE ALL THESE PROPERTIES

SOUND ABSORPTION . . . SOUND TRANSMISSION . . . THERMAL INSULATION
FIREPROOFING . . . CONDENSATION CONTROL

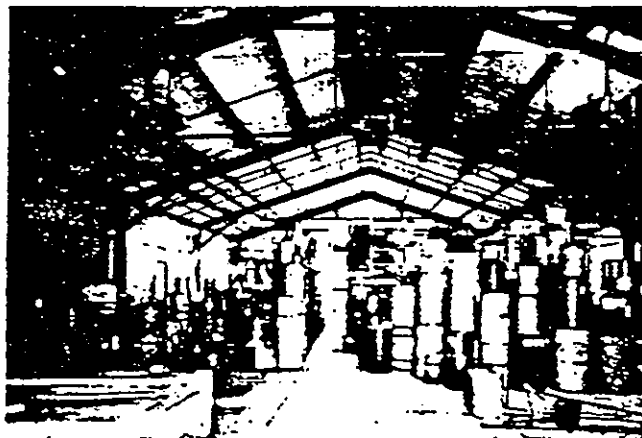
Thermal Insulation

CAFCO SPRAY is a highly efficient insulating material having a K factor of .26 saving up to 75% of the heating cost of metal and transite buildings. Where a problem in application exists, CAFCO SPRAY becomes especially practical. It is applied by spraying directly onto the surface to be insulated. Because of its adhesive qualities it forms a permanent, firm bond to the surface, eliminating any need for mechanical or structural support. For this reason alone, it is the only practical answer to many difficult insulating problems.

Especially economical for industrial buildings, CAFCO SPRAY can be applied in one rough coat directly to walls and ceilings without the finishing coat.

The optional Crystalline-Slurry Method may be used to make walls and ceilings washable and abrasion-resistant. This material will not crack, is permanent, rot proof, and vermin proof. Once cured, CAFCO SPRAY is unaffected by vibration and leakage.

APPLICATION: Industrial plants and warehouses, metal and transite buildings, churches, masonry buildings, tanks, industrial ovens, boilers and boiler rooms, or wherever heat is to be isolated.



Fireproofing

Listed by Underwriters' Laboratories, Inc.
Each bag carries the U-L label

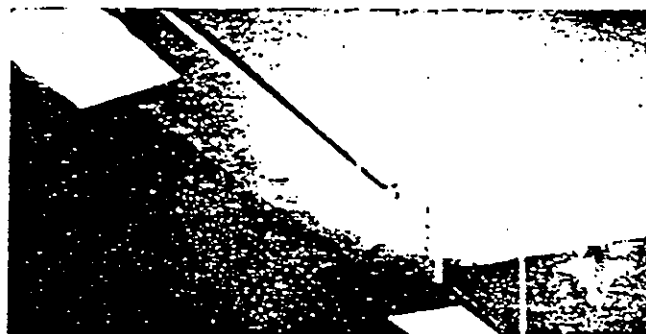
CAFCO SPRAY is a highly efficient fireproofing material. By test it has been found to have a fire hazard rating of 15 when applied in 1/2" thickness to combustible materials. Most cities allow ratings of 20 or over.

The common problem of high-cost, difficult-to-apply fireproofing is eliminated by CAFCO SPRAY. There is no cutting, fitting or strapping-on of materials. Regardless of the inaccessibility, shape or position of the surface, CAFCO SPRAY is simply sprayed over it, following its contours perfectly and completely. The finished job produces a light weight, durable fireproofing cover.

Because it is composed only of mineral fibers and mineral binders, CAFCO SPRAY cannot burn — is rated incombustible.

Tests show a single application of CAFCO SPRAY is capable of a 4 hour rating and confirmatory authoritative tests are in process.

APPLICATION. Beams, columns, floors and ceilings, public buildings, institutions, bank safes, industrial plants, combustible products storage areas, or wherever lives and valuable property must be protected from fire.



UNDERWRITERS' LABORATORIES FIRE HAZARD CLASSIFICATION

Material	Backing	Flame Spread	Fuel Contribution	Smoke Developed	Thickness
Caico Spray	Metal lath	10-15	10-15	Negligible	1/2"
Caico Spray	Cork	15	20	Negligible	1/2"
Caico Spray	Cellulose board	15	10-15	Negligible	1/2"

more about

Caico spray

on the back cover