PLAINTIFF'S EXHIBIT

USG-1687

A.I.A. File 21-A 39-B

TECHNICAL INFORMATION

USG* GYPSUM PLASTERS —

FINISHING LIMES
ACOUSTICAL PLASTERS

UNITED STATES GYPSUM

1963

*T. M. Reg. U.S. Pat. Off.

A.I.A. File 21-A 39-B

GT603 1970

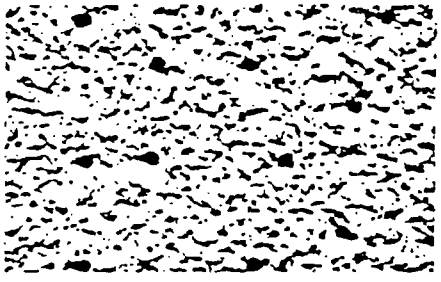
BB007 0174

USG ACOUSTICAL PLASTERS

The UNITED STATES GYPSUM COMPANY manufactures two types of sound absorbing, decorative finish acoustical plasters. They are architecturally adaptable to intricate ceiling designs, and can be used equally effective on curved or flat surfaces.

While these plasters perform the common function of absorbing sound and providing a decorative finish, each has certain characteristics which influence their individual selection.

HI-LITE* Acoustical Plaster



HI-LITE Stipple-Perforated

DESCRIPTION

HI-LITE Acoustical Plaster is a pure white acoustical material, with excellent light reflective characteristics, making it particularly adaptable for use in schools and office buildings where light reflectance and efficiency of illumination are important considerations. Its relatively high moisture resistance makes it an excellent choice for acoustical treatment in natatoriums and other areas in which high humidities are anticipated. HI-LITE Acoustical Plaster is not subject to the migration of rust stains from the construction over which it is applied.

It develops a harder finished surface than many acoustical materials, and can be cleaned or painted without reducing the absorption characteristics.

It may be applied over properly prepared gypsum plaster or Portland cement-lime plaster basecoats. It may be machine applied; however, the published sound absorption data does not apply in this case.

FUNCTION AND UTILITY

Sound Absorption—Noise Reduction Coefficient of .60 when stippled or stipple-perforated. When stippled, HI-LITE exhibits outstanding sound absorption characteristics at the lower frequencies.

High Light Reflectance—Light reflectance of 80% for the normal stippled finish.

Maintenance—HI-LITE Acoustical Plaster may be cleaned with vacuum cleaner using a soft brush attachment.

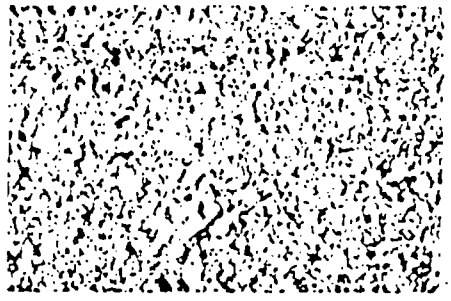
Paintable—May be redecorated with up to four coats of spray applied TEXOLITE Standard Paint without reducing sound absorption characteristics.

LIMITATIONS OF USE

1. HI-LITE must be machine mixed in strict accordance with directions to develop proper density and working qualities.
2. HI-LITE may be machine applied, but published sound absorption coefficients do not apply unless hand applied and finished in accordance with specifications.
3. More durable than most acoustical materials, but is designed for use on ceilings or wall areas not subject to contact.
4. When perforated, a special perforator with rust resistant prongs should be used.
5. HI-LITE is not recommended for use over radiant heating installations.
6. HI-LITE is not recommended for direct application to monolithic concrete surfaces.

AUDICOTE* Acoustical Plaster

AUDICOTE Machine-Textured Finish



DESCRIPTION

AUDICOTE Acoustical Plaster is a low cost acoustical material designed for either modern efficient machine application or conventional hand application methods over a wide range of surfaces. It can be applied over properly prepared gypsum or Portland cement basecoats, monolithic concrete, prefabricated concrete units.

The uniform texture resulting from spray application makes AUDICOTE particularly suitable for use on large continuous ceiling areas. Through modifications of machine procedures and spray techniques, many pleasing textures are possible.

AUDICOTE is readily adaptable to tinting, and incorporation of special aggregates to further increase the design and decorative possibilities. Few other acoustical products present the designer with the flexibility and adaptability of AUDICOTE Acoustical Plaster.

FUNCTION AND UTILITY

Sound Absorption—Noise Reduction Coefficient of .55.

Light Reflectance—When machine textured, has light reflectance of 65% for Satin White, and 70% for Special White.

Maintenance—May be economically refinished with a spray coat of AUDICOTE.

Paintable—May be redecorated with up to two coats of spray applied TEXOLITE* Standard Paint with no loss in Noise Reduction Coefficient. Up to four coats result in only a minor reduction in sound absorption characteristics.

Colors—Available in Satin White and Special White.

AUDICOTE may also be tinted on the job.

LIMITATIONS OF USE

1. AUDICOTE is designed for use on ceiling and wall areas not subject to contact, excessive vibration or high moisture.
2. SPECIFIED precautions must be taken under certain circumstances to prevent the migration of water-borne-stains to the surface of AUDICOTE. (See Specifications on Page 4.)
3. AUDICOTE is not recommended for use over radiant heating installations.

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V. MATERIALS—Plaster and all cementitious material shall be stored under cover, up off the ground or floor, and kept dry until ready for use.

g. Acoustical Plaster shall be:
(HI-LITE), (AUDICOTE) as manufactured by the UNITED STATES GYPSUM COMPANY.

c. Where RED TOP AUDICOTE Acoustical Plaster is indicated for application direct to smooth monolithic concrete, reinforcing bar chair legs shall be either galvanized or coated with rust inhibitive paint and use of nails or other raw steel against forms or surface of concrete held to a minimum. Where metal is exposed in spite of these precautions, and where AUDICOTE is to be applied directly against corner beads or other metal accessories, the metal should be treated with one coat of aluminum paint.

GP03 1972

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ACOUSTICAL PLASTERS

TECHNICAL DATA

ACOUSTICAL PLASTER	FINISH	LIGHT REFLECTANCE PER CENT (1)	HEAT INSULATION "K" FACTOR (2)
HI-LITE	Stippled	.80	.50
	Stipple-Perforated	.77	
AUDICOTE	Machine Textured	Satin White .65	.50
		Special White .70	

LABORATORY TEST DATA

The absorptions reported below are the test results of representative panels. It is not always possible to achieve these results in the field. Care must be taken to mix the material to specified consistencies and applied to uniformly full grounds.

1. Light reflectance from tests at an independent recognized laboratory.
2. Heat insulation data from tests at USG Research Laboratory.
3. Sound absorption from standard tests at a recognized laboratory.

SOUND ABSORPTION (3)

ACOUSTICAL PLASTER	FINISH	FREQUENCY						NRC
		125	250	500	1000	2000	4000	
HI-LITE	Stippled	.41	.26	.59	.78	.84	.65	.60
	Stipple-Perforated	.20	.24	.50	.76	.83	.76	.60
AUDICOTE	Machine Texture	.26	.28	.53	.67	.73	.66	.55

GI-003 1973

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k. HI-LITE Acoustical Plaster shall be machine mixed to the proper consistency and density according to the manufacturer's directions.

l. AUDICOTE Acoustical Plaster shall be mixed for hand application or machine application according to the manufacturer's directions.

GP003 1978

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e. Acoustical Plasters shall be applied in not less than two coats, to full ½ inch grounds, following the manufacturer's directions.

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In Canada: CANADIAN GYPSUM CO., LT'D., TORONTO—MONTREAL

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