

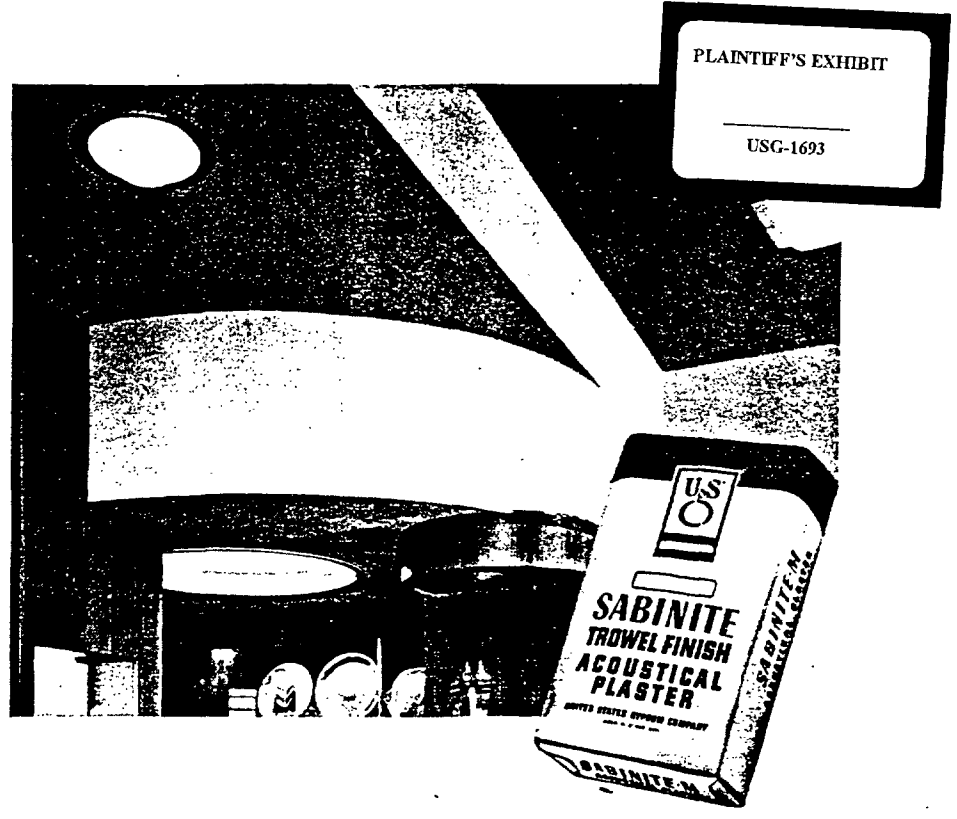
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TECHNICAL INFORMATION

SABINITE

REG. U. S. PAT. OFF.

ACOUSTICAL PLASTER



United States Gypsum

For Building • For Industry

Gypsum • Lime • Steel • Insulation • Roofing • Paint

GENERAL OFFICES—300 WEST ADAMS STREET, CHICAGO 6, ILLINOIS

ALBANY, N. Y.
ATLANTA, GA.
BALTIMORE, MD.
BIRMINGHAM, ALA.
BOSTON, MASS.
BUFFALO, N. Y.

CHARLOTTE, N. C.
CHICAGO, ILL.
CINCINNATI, O.
CLEVELAND, O.
DALLAS, TEX.
DENVER, COLO.
DETROIT, MICH.

GRAND RAPIDS, MICH.
HARRISBURG, PA.
HOUSTON, TEX.
INDIANAPOLIS, IND.
JACKSONVILLE, FLA.
KANSAS CITY, MO.
LOS ANGELES, CALIF.

MILWAUKEE, WIS.
MINNEAPOLIS, MINN.
NEWARK, N. J.
NEW HAVEN, CONN.
NEW YORK, N. Y.
OKLAHOMA CITY, OKLA.
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PHILADELPHIA, PA.
PHOENIX, ARIZ.
PITTSBURGH, PA.
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PROVIDENCE, R. I.
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SACRAMENTO, CALIF.
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SAN FRANCISCO, CALIF.
SEATTLE, WASH.
SYRACUSE, N. Y.
WASHINGTON, D. C.

BB01B 1444

SABINITE* ACOUSTICAL PLASTER

SABINITE TROWEL FINISH "M" DESCRIPTION

SABINITE Trowel Finish is a highly efficient acoustical plaster, scientifically prepared to produce a continuous trowel finish of exceptional sound absorbent qualities. It is manufactured in four standard colors and white and requires the addition of water only.

FUNCTION AND UTILITY

SABINITE Trowel Finish acoustical plaster is particularly effective for sound conditioning.

Sound Absorption—Noise reduction coefficient of .60. (See table below.)

Fire Resistance—Basically a mineral, it is incombustible.

Beauty—Its fine texture troweled surface provides unusual beauty, eliminating the mechanical effect generally associated with acoustical treatment.

Adaptability—Conforms to any architectural design. Generally applied over new plastered surfaces, but may also be applied over most existing surfaces through use of a special asphalt emulsion bonding coat according to manufacturer's directions.

High Light Reflection—Laboratory tests indicate light reflection of 64 per cent for SABINITE Trowel Finish Oyster White.

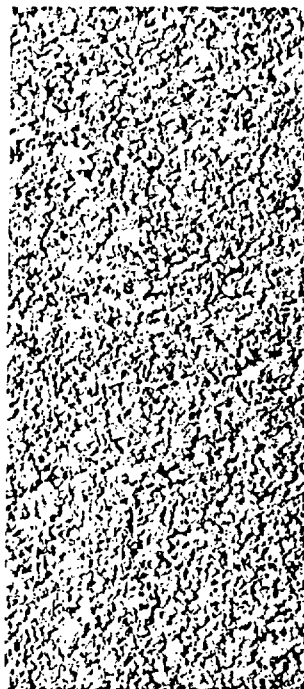
Heat Insulation—SABINITE Trowel Finish has a "k" value of 0.50.

Maintenance—SABINITE Trowel Finish may be cleaned using a putty-type wallpaper cleaner or with a vacuum cleaner using hose and brush attachment.

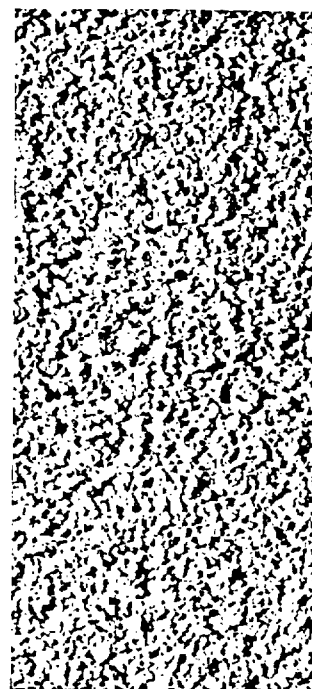
SABINITE Trowel Finish may be redecorated with TEXOLITE* paint (Standard or Imperial). Apply according to USG specification for painting SABINITE acoustical plaster. (See Page 4)

Tests by a nationally recognized laboratory showed

"SABINITE", "TEXOLITE", "RED TOP", "ROCKLATH" and "BONDCRETE" are registered trademarks owned by United States Gypsum, used by it to distinguish its products. "SABINITE" identifies the particular acoustical plaster; "TEXOLITE" identifies the particular paint; "RED TOP" identifies the particular gypsum plaster; "ROCKLATH" identifies the particular gypsum lath and "BONDCRETE" the particular plaster for concrete surfaces manufactured only by United States Gypsum.



Sabinite Trowel Finish



Sabinite Float Finish and 38

SABINITE Trowel Finish had no loss in noise reduction coefficient after 2 spray coats of Imperial TEXOLITE paint were applied.

Easily Applied—Any good plaster craftsman can apply SABINITE.

Economical—Gives more sound absorption per dollar invested than most other commonly used acoustical materials. Low in initial cost.

LIMITATIONS

1. Designed for use on ceilings and areas not exposed to rough usage.
2. Should not be used where exposed to excessive moisture, (See SABINITE 38—Next Page), and should not be used on the exterior where exposed to the elements.
3. To insure best results, SABINITE must be applied in strict accordance with manufacturer's directions.

SOUND ABSORPTION DATA

SABINITE Type	Thickness	128	256	512	1024	2048	4096	NRC	Authority
Trowel Finish	½ Inch	.18	.24	.45	.78	.85	.83	.60	B. of Stds.
Float Finish	½ Inch	.19	.22	.43	.80	.75	.75	.55	B. of Stds.
38	½ Inch	.25	.26	.32	.60	.76		.50	Riverbank Lab.

SABINITE ACOUSTICAL PLASTER

SABINITE FLOAT FINISH "F"

DESCRIPTION

SABINITE Float Finish is a highly efficient acoustical plaster used where a float finish is desired. It is manufactured in four standard colors and white and requires the addition of water only.

FUNCTION AND UTILITY

SABINITE Float Finish acoustical plaster is effective for sound conditioning and has a slightly harder surface than SABINITE Trowel Finish.

Sound Absorption—Noise Reduction Coefficient of .55. (See table on opposite page.)

Fire Resistance—Basically mineral, it is incombustible.

Appearance—Its continuous floated surface provides the appearance of a heavy sand float finish.

Adaptability—Conforms to most architectural designs.

High Light Reflection—Laboratory tests indicate light reflection of 54 per cent for SABINITE Float Finish Oyster White.

Heat Insulation—SABINITE Float Finish has a "k" value of 0.76.

Maintenance—SABINITE Float Finish may be cleaned with a vacuum cleaner using hose and brush attachments. SABINITE Float Finish may be redecorated with TEXOLITE paint (Standard or Imperial). Apply according to USG specification of painting SABINITE acoustical plaster. (See following page)

LIMITATIONS

1. Designed for use on ceilings and areas not exposed to rough usage
2. Must be applied over new plastered surfaces.
3. Should not be used where exposed to excessive moisture (use SABINITE 38), and should not be used on the exterior where exposed to the elements.
4. To insure best results, SABINITE Float Finish must be applied in strict accordance with manufacturer's directions.

SABINITE 38

DESCRIPTION

SABINITE 38 is an hydraulic acoustical plaster prepared for use in locations subjected to high moisture conditions. It is manufactured in white only and provides a float finish.

FUNCTION AND UTILITY

SABINITE 38 is effective for sound conditioning in shower rooms, for ceilings in swimming pools, etc.

Sound Absorption—Noise Reduction Coefficient of .50. (See table on opposite page.)

Fire Resistance—Basically a mineral, it is incombustible.

Appearance—Its continuous floated surface provides the appearance of a heavy sand float finish.

Adaptability—Conforms to most architectural designs.

Heat Insulation—SABINITE 38 has a "k" value of 0.80 (estimated).

Maintenance—SABINITE 38 may be cleaned with a vacuum cleaner using hose and brush attachments.

It may be painted with Imperial TEXOLITE paint applied according to USG directions which will vary with conditions encountered. These directions are available upon request.

LIMITATIONS

1. Designed for use on ceilings and areas not exposed to rough usage.
2. Must be applied only over a portland cement-lime basecoat.
3. To insure best results, SABINITE 38 must be applied in strict accordance with manufacturer's directions.

PLASTERING SPECIFICATIONS

GENERAL PROVISIONS

In cold weather a minimum temperature of 40°F. shall be maintained in the building until the plaster is dry. After plaster has set, ventilation shall be provided to eliminate excessive moisture in the building. In hot, dry weather, all openings shall be closed with sash or cloth during the application of plaster. No plaster shall be allowed to dry before setting.

SCOPE

Unless otherwise shown on drawings, all walls and ceilings shall be finished as herein described.

MATERIALS

Finish Coat—Acoustical plaster shall be SABINITE Acoustical Plaster (Trowel Finish) (Float Finish) (Type 38) (Specify) manufactured by United States Gypsum Company. Color shall be as designated by the architect.

MIXING AND APPLICATION

Mixing and application of SABINITE Acoustical Plaster and the basecoat plaster shall be in strict accordance with the manufacturer's printed directions which are hereby made a part of this specification.

MIXING & APPLICATION OF SABINITE

SABINITE TROWEL FINISH

MIXING

Machine Mixing Recommended. Put 24 quarts clean water in mixer for each bag of SABINITE Trowel Finish. Mix until SABINITE weighs 15 to 17 pounds net per 12-quart pail (usually 3 to 5 minutes mixing required, depending on speed of mixer).

For Hand Mixing. Place SABINITE Trowel Finish in one end of mixing box.

For each bag of SABINITE Trowel Finish add 24 quarts of clean water in the other end of box.

Hoe SABINITE Trowel Finish into water. The mix will appear dry, but continue hoeing. *Do not add more water.*

Mix until SABINITE weighs 15 to 17 pounds net per 12-quart pail (approximately 15 minutes per 2-bag batch).

APPLICATION

SABINITE Trowel Finish shall be applied in 2 coats to a uniform total thickness of $\frac{1}{2}$ inch over a base coat of RED TOP* gypsum plaster. A full scratch and brown coat are required over metal lath, ROCKLATH* plaster base and masonry bases (not monolithic concrete) to provide proper rigidity, strength and a solid base for the acoustical plaster.

First Coat: Apply the first coat of SABINITE $\frac{3}{8}$ inch thick over a set, cross raked brown coat which is thoroughly green (brown coat must be wet throughout, not merely damp. Follow immediately with a wood or metal darby, levelling SABINITE to provide a true, even surface for the finish coat. First coat of SABINITE must be dry before application of the finish coat.

If brown coat is half green or dry, wet sufficiently to reduce suction (brown coats containing light weight aggregates; vermiculite, perlite, etc., require soaking to reduce excessive suction) and apply a $\frac{1}{4}$ inch bonding coat of gypsum plaster sanded 2:1 by weight. Before bonding coat has set, follow immediately with the first $\frac{3}{8}$ inch coat of SABINITE.

Over properly prepared monolithic concrete surfaces apply BOND-CRETE* plaster not to exceed $\frac{1}{4}$ inch thickness on ceilings and $\frac{3}{8}$ inch on side-walls. Apply the first $\frac{3}{8}$ inch coat of SABINITE over the unset BOND-CRETE or, if set, apply while thoroughly green. Darby lightly to a true level surface immediately after application. Allow to set until dry.

Finish Coat: Apply SABINITE finish coat $\frac{1}{8}$ inch thick, leaving surface free of trowel marks, working from wet edge to avoid joinings. After water sheen leaves surface (about 10-20 minutes after application), trowel lightly (do not float) for uniform texture. Do not use water during troweling.

SABINITE FLOAT FINISH

MIXING

Machine Mixing Preferred

Add not over 28 qts. of clean water per bag of SABINITE Float Finish. Add SABINITE to water. Mix 3 to 4 minutes until light and fluffy.

Hand Mixing

Add not over 30 qts. of clean water per bag of SABINITE Float Finish. Hoe until plaster is uniformly wet. Allow to soak for a few minutes, then hoe until mortar is light and fluffy. A 2-bag batch requires about 8 minutes mixing for proper consistency.

APPLICATION

SABINITE Float Finish shall be applied over a level, cross-raked and uniformly dry scratch and brown basecoat of gypsum plaster.

DIRECTIONS FOR PAINTING

SABINITE TROWEL FINISH AND FLOAT FINISH

Surface Preparation: Remove all loose dirt or dust by use of hand vacuum or putty type cleaner.

PAINT: Water thinned paint (Regular TEXOLITE, casein base, or Imperial TEXOLITE, resin base), in desired color. First coat mix one part TEXOLITE paste to one part water by volume. Mix second coat if required, one part TEXOLITE paste to two parts water by volume.

SPRAY GUN: Any gun which can be adjusted for a medium fine spray can be used, preferably the Devilbiss spray gun, Type MBD, with a No. 30 nozzle or equivalent.

Apply first coat of SABINITE Float Finish $\frac{1}{4}$ inch thick and bring to a true, even surface with trowel. When water sheen has left surface, broom and allow to set and dry.

Apply finish coat of SABINITE Float Finish $\frac{1}{4}$ inch thick. As water sheen leaves surface, finish with shingle or cork float. Areas must be finished in one operation to avoid joining. *Do not use water in floating.*

DIRECT APPLICATION OF SABINITE TROWEL FINISH TO EXISTING CEILINGS OR CONCRETE

SABINITE Trowel Finish may be applied over existing plaster, and over new or existing concrete ceilings, with the use of asphalt emulsion (Type N-13 HPC or C-13HPC) as a bonding agent.

On existing painted plaster or concrete ceilings the surface must be dry, clean and sound. Calcimine or similar powder paints must be washed off and wax, grease or oil removed. Loose or improperly bonded plaster or paint must be removed and such areas repaired with wood fiber or patching plaster. Allow patches to dry 2 to 3 days.

On new concrete ceilings which are smooth, level and dense (not suitable for BOND-CRETE application) the surface must be dry, free of dust, oil, grease or efflorescence.

Size any porous concrete or porous or unpainted plaster surfaces with cut-back asphalt, shellac or varnish to reduce suction before asphalt emulsion is applied.

Trowel asphalt emulsion in thin coat not to exceed $\frac{1}{8}$ inch, making certain entire ceiling area is covered.

The first $\frac{3}{8}$ inch coat of SABINITE Trowel Finish should follow application of the emulsion as closely as possible or at least within 2 hours.

Darby first coat of SABINITE to a true even surface with a minimum of pressure. Allow to set until dry.

Apply SABINITE Finish Coat $\frac{1}{8}$ inch thick, scratching in and immediately doubling back, leaving surface free of trowel marks, working from wet edge to avoid joinings. After water sheen leaves surface (about 30 minutes after application), Trowel lightly (do not float) for uniform texture. Do not use water during troweling.

NOTE: Only SABINITE Trowel Finish may be applied using this method.

SABINITE 38

MIXING

Machine Mixing Preferred

Add not over 31 qts. of clean water per bag of SABINITE 38. Add SABINITE to water. Mix 3 to 4 minutes until light and fluffy.

Hand Mixing

Add not over 33 qts. of clean water per bag of SABINITE 38. Hoe until plaster is uniformly wet. Allow to soak for a few minutes, then hoe until mortar is light and fluffy. A 2-bag batch requires about 8 minutes mixing for proper consistency.

APPLICATION

SABINITE 38 shall be applied only over a level, cross-raked thoroughly cured and uniformly dry scratch and brown coat of portland cement-lime plaster.

Apply first coat of SABINITE 38 $\frac{1}{4}$ inch thick and bring to a true, even surface with trowel. When water sheen has left surface, broom and allow to set and dry.

Apply finish coat of SABINITE 38 $\frac{1}{4}$ inch thick. As water sheen leaves surface, finish with shingle or cork float. Areas must be finished in one operation to avoid joining. *Do not use water in floating.*

SPRAY PRESSURE: Use 30 to 40 lbs. pressure in the gun and 20 to 30 lbs. on the paint.

SPRAYING: Adjust nozzle for a medium fine spray. Hold nozzle 14 to 18 inches away from the work, using a slow, uniform pass over the surface sufficient to cover in one pass. Do not pass over same area several times since this builds up paint unnecessarily.

DRYING: Allow at least overnight drying between coats, but if weather is extremely humid allow additional drying as necessary.

NOTE: Brush painting is not recommended.

SABINITE 38—Painting directions are available upon request.

*Trademark Reg. U.S. Pat. Off.