

SGP 0019121

LIGHT ACOUSTICAL PLASTER

Advantages of Bestwall Light Acoustical Plaster

- HIGH NOISE REDUCTION COEFFICIENT
- GOOD LIGHT REFLECTIVITY
- EASILY DECORATED
- IDEAL FOR MACHINE APPLICATION
- 100% FIREPROOF
- ECONOMICAL



SOUND REDUCTION
LIGHT REFLECTION
COLOR
GUN APPLICATION
LOW COST
EASY TEXTURE



Mode By: Bestwall Gypsum Company
Sold Through:
Bestwall Certain-teed Sales Corporation
120 East Lancaster Avenue
Ardmore, Pennsylvania
Form No. BW-58121-REP 10M-9-58-M Printed in U.S.A.



Bestwall Gypsum Company provides you with "top quality gypsum products through creative research." Bestwall Light Acoustical Plaster is no exception; it is tested and re-tested constantly in the Bestwall Gypsum Company laboratory to assure you of the highest quality product always.

BESTWALL LIGHT ACOUSTICAL PLASTER



BESTWALL LIGHT ACOUSTICAL PLASTER is an ideal sound conditioner for new work or refinishing ceilings in commercial, institutional or industrial buildings, Restaurants, offices, churches, schools, auditoriums, hospitals and homes can use Bestwall Light Acoustical Plaster for sound conditioning.

Question

Answer

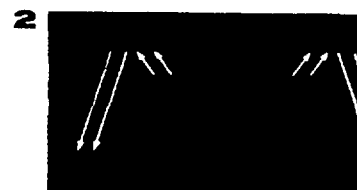


- 1** How effective is Bestwall Light Acoustical Plaster for noise reduction?

—Bestwall Light Acoustical Plaster has a noise reduction coefficient of from .55 to .60. Ordinary hard wall and ceiling surfaces reflects about 97% of the noise reaching it and bounces it back and forth in a room. This reflection creates air disturbances and echoes in a room. This reflection of sound waves from hard wall surfaces is known as "reverberation" and is one of the main causes of sound distortion and unsatisfactory acoustics.

Bestwall Light Acoustical Plaster absorbs about 50% of the original sound and soaks up reverberations and echoes fast enough so that sounds produced within a room are not garbled or confused, but clear and audible for perfect sound control.

The sound-ball chart at the right shows the sound absorbing action of Bestwall Light Acoustical Plaster.



- 2** Does Bestwall Light Acoustical Plaster reflect light as well as sound?

—Bestwall Light Acoustical Plaster, upon application produces an attractive natural white finish which reflects from 67 to 69% of the light striking its surface. This is important in places such as schools or offices where correct lighting is a must.

- 3** Does Bestwall Light Acoustical Plaster protect against fire as well as sound?

—Bestwall Light Acoustical Plaster is made of incombustible minerals—it can't burn or support combustion. In fact, the fire protection obtained by using this plaster, in many cases, may cut the cost of fire insurance premiums.

- 4** Can Bestwall Light Acoustical Plaster be applied by plaster gun?

—Bestwall Light Acoustical Plaster is specially developed for application with a plaster gun and is easily applied by hand.

- 5** Is Bestwall Light Acoustical Plaster expensive?

—Bestwall Light Acoustical Plaster is one of the most economical materials used for sound conditioning.

- 6** Can Bestwall Light Acoustical Plaster be decorated easily?

—The natural white finish of Bestwall Light Acoustical Plaster may be painted in any color desired. When painting, use a penetrating breather type of paint that will not penetrate to the surface of Bestwall Light Acoustical Plaster.



GYPSUM PRODUCTS MANUAL

Chapter IV

Factors Affecting Hose Pressure

Using a plaster especially formulated for machine application and maintaining proper mortar consistency are necessary to keep hose pressure at a minimum, but there are also several other important factors.

1. **Hose length** - Pressure varies nearly directly with length of hose used. A pump (cylinder or Moyno) will develop approximately twice as much pressure with a 60' hose as it will with 30' of the same hose.
2. **Hose size** - Diameter of hose is definitely a factor. If pressure for 60' of 2" hose is 90 psi, pressure required for 60' of 1½" hose would be about 165 psi.
3. **Effect of height** - In addition to pressure developed with an length of hose, about one-half pound per sq. inch must be added for every foot the plaster is elevated. For example, if the machine is on the ground and the hose is run up to second floor, which is 30' above ground, there will be an extra 15 psi hose pressure.
4. **Proportion of aggregate** - A rich mix (2 to 1) will usually result in more pressure than a leaner mix (3 to 1). The richer mix will usually have to be slightly thinner than the lean one in order to get same capacity from the machine.
5. **Mortars containing vermiculite aggregate** normally pump with considerably less pressure than those containing either perlite or sand.

Remember, high hose pressure results in lower capacity and more machine wear. Bestwall gun plasters are formulated to pump with as low pressure as possible and at the same time work good under the tools after being sprayed on the wall or ceiling.

Spraying Acoustical Plaster

Bestwall Light Acoustical plaster was formulated especially for machine application. It works well in all type machines. Hose pressure is not normally a problem with this type plaster as it pumps easily with a low pressure.

The Nozzle

The nozzle of all plaster machines are basically the same. The mortar goes through an orifice, most have several interchangeable orifices varying in diameter from 1/4" to 5/8". Compressed air is fed to the nozzle. The amount of air, consistency and type of mix, volume of mix and size of orifice determine the spray pattern. The nozzle operates by emitting a globule of mortar, then air, then mortar. Low frequency of this cycle results in large globules of mortar while high frequency results in very small globules.

To lower frequency: (1) Use lower air pressure
 (2) Use larger orifice
 (3) If air stem is adjustable, use greater distance from air stem to orifice.

To increase frequency, resulting in finer spray pattern, reverse above procedure.

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