

# RED BOOK

Describing  
the products  
manufactured  
by the  
United States  
Gypsum Co

W. L. TYSON

# *The* Red Book

For the reference of  
Architects  
Contractors  
Plasterers and  
Dealers

1926 Edition

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T. M. REG.

United States Gypsum Company

General Office

205 W. Monroe St., Chicago

# UNITED STATES GYPSUM COMPANY

## GENERAL OFFICES

295 W. Monroe St., Chicago, Ill.

## SALES OFFICES

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Detroit, Mich.; Albaster, Mich.; Grand  
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Sweetwater, Texas; Piedmont, S. D.; Lowe,  
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# FORWORD



THOROUGH knowledge of the physical and chemical properties, proper uses, and correct application of any building material is essential for securing the best results. Very frequently a good material is condemned because the lack of this knowledge has produced mediocre results.

This Red Book has been prepared to enable you to obtain the maximum results from the use of gypsum products. The information given has been carefully compiled and condensed from data gathered through years of exhaustive study and research. It is given to you in a handy form to occupy a small space in your pocket or on your desk.

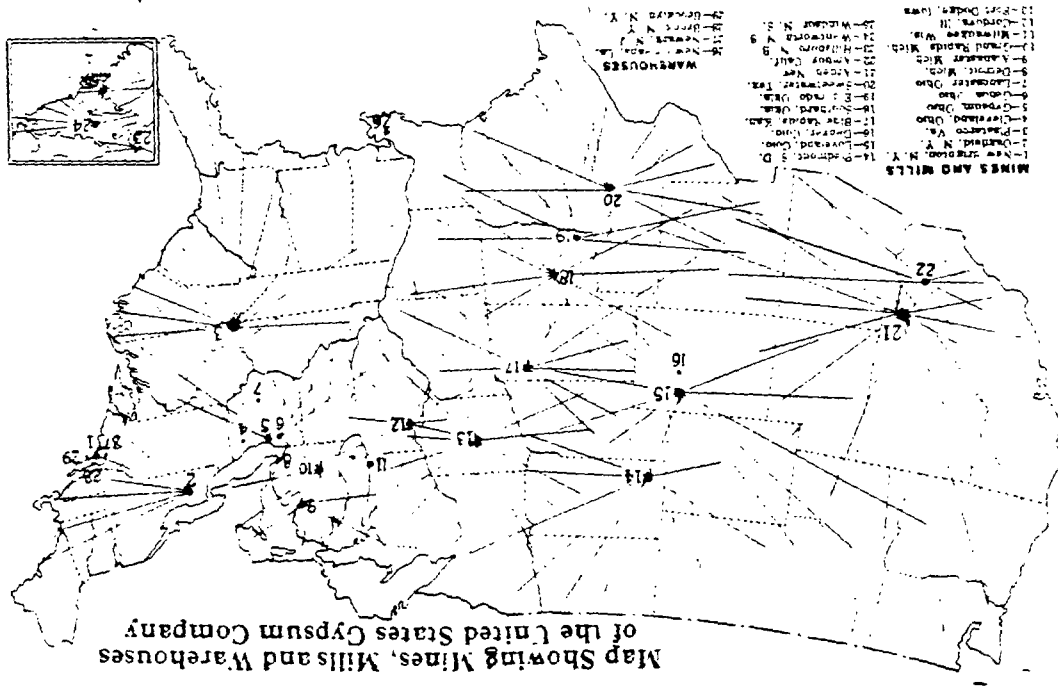
The United States Gypsum Company has a complete line of gypsum products embracing wall plasters for scratch, brown, and finish coats for use on every kind of plastering base; exterior stucco; industrial plasters; agricultural or land plasters; roof, floor, and partition tile; insulation; plaster boards, sheathing boards and wall boards. (See index on pages 3 and 4.) If you have need for any gypsum product not listed or described in this book, write us.

United States Gypsum Company materials are made as scientifically and perfectly as is possible after more than twenty years of determination to produce the best gypsum materials in the world. If this booklet conveys to you an accurate knowledge of the use and possibilities of these materials and enables you to obtain better results, it will have fulfilled its purpose.

UNITED STATES GYPSUM COMPANY



Map Showing Mines, Mills and Warehouses of the United States Gypsum Company



## SUPERIOR PRODUCTS



A Corner in one of our Mines

THE superiority of our products is based upon pure raw materials, perfected processes of manufacture and one control from mining to shipping. Our gypsum mines are conceded to be the purest deposits of gypsum rock in the world. The illustration shows a small room in one of these mines.

The United States Gypsum Company is a pioneer in the gypsum industry in America. For more than twenty years, this company through its laboratories, experimental departments and field investigations has closely studied the requirements of the building industry. Its formulae and mechanical equipments have been perfected to meet fully these requirements.

### Your Guarantee

Products bearing the trademarks of the United States Gypsum Company are safeguarded against imperfections. They are rigidly inspected by experts at every stage of production, from the selection of the raw materials to the shipment of the finished products. Any variation from the highest measure of perfection means rejection.

This rigid maintenance of quality has been so recognized by the trade that the name of the United States Gypsum Company has become synonymous with perfection in gypsum products.

## What Hard Wall Plasters Are

**H**ARD WALL PLASTERS are made by driving off the water of crystallization from gypsum rock. This basic product forms a plastic mass on the addition of water, mixes with the same amount of water driven off during calcination, is applied to the wall, and crystallizes, reverting to its rock state.

Gypsum wall plasters have practically supplanted lime for plastering purposes, because lime requires several months to harden and years to attain its full strength. Unless lime is properly hydrated and applied, it never develops the strength necessary for durability. During this period of hardening, lime plaster is giving off water in exchange for carbon gases absorbed from the air. Until the plaster is entirely hardened the building is damp and unsanitary.

Conditions of this kind are impossible with gypsum wall plaster. It sets up uniformly hard and homogeneous within two or three hours after application. Inside of thirty-six hours the walls are dry and there is no further dampness or sweating as with lime mortars. The building is immediately habitable from a hygienic standpoint.

These are the particular features, although there are a host of other advantages resulting from them, which make our gypsum plasters so different from and so much better than the old fashioned lime and sand plasters.

United States Gypsum Company plasters cover the interior walls of the building with a closely knit crystallized body - rock gypsum - that resists fire and is many times harder and stronger than a lime wall.

UNITED STATES GYPSUM COMPANY - CHICAGO

## Advantages of Gypsum Wall Plaster



GYPSUM WALL PLASTER adheres equally well to wood or metal lath, plaster board, Pyro-bar tile, clay tile, brick or other approved plastering surfaces. It sets in two or three hours, permitting the carpenters to follow the plasterers without loss of time. Being made of gypsum, it is a valuable fire resistant and does not expand and wreck itself loose from the surface as lime plaster does when subjected to fire. It will last as long as the building.

Its exceptional adhesiveness adds strength, and greatly increases the durability of the walls.

It will not crack of itself, shrink or stain.

Rats or vermin cannot penetrate it owing to its density and extraordinary hardness.

Its hard surface, durable and dense body afford an admirable foundation for the finish coat and wall decorations. Gypsum wall plaster will withstand the wear and tear of occupancy.

It resists leakage from water pipes or imperfect roofs.

Its use increases the rigidity of the building, reinforcing outside strength with inside strength.

It costs no more than three-coat lime work, and is vastly better in every way.

Its use saves weeks in the time necessary to plaster a building.

It is plastic, works smoothly, and can be applied by any competent mechanic.

UNITED STATES GYPSUM COMPANY - CHICAGO

## WHAT THE red top MEANS



THE plasters of the United States Gypsum Company have long been noted for their richness and easy spreading qualities. They have always had the reputation of making walls and ceilings unexcelled in density and hardness.

Today the wall plasters manufactured by this company are the accumulation of the experience of all our 24 mills, and the development of years of laboratory research and experimental work.

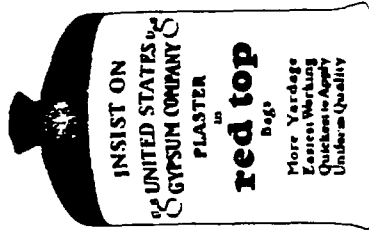
Continual improvement of manufacturing processes has resulted in a dependable plaster. To identify this better plaster, we put it in a RED TOP bag, making "a distinctive plaster in a distinctive package."

The RED TOP on a bag of U.S.G. plaster indicates the utmost in plaster economy and the highest type of plaster manufacture. It is our assurance that the material in that bag is the best plaster any one can buy anywhere at any price.

### UNIFORMITY

The uniformity of this plaster is certain, as its manufacture is expertly supervised by men who have spent years in producing high grade plaster. Each process, from selecting the raw material to loading the finished product, is constantly under rigid supervision.

Each bag of this plaster is double tested at the mill, and then tested a third time to make sure that it will work satisfactorily with the sand of the locality where it is to be used. The uniformity of every bag may thus be depended upon, which means plastering satisfaction and building economy.



EXCEPTIONAL RICHNESS AND "SLIP"

This plaster has been developed as much for the convenience of the plasterer as for chemical perfection. The result is an unusual richness and "slip" which appeals to the man on the job. It works easier at the mortar box; it goes on so much quicker and spreads so much farther that the plasterer does a better day's work, with less labor.

GREATER YARDAGE

Gypsum Plaster in RED TOP bags gives a surprisingly increased spread. Bag for bag it covers a greater yardage of wall surface than any other. Contractors, builders and owners alike comment on the larger coverage per ton from this plaster. Its use is true economy.

STRONG, DURABLE WALLS

This plaster makes strong, durable walls and ceilings, that successfully withstand the wear and tear of occupancy. The purity of the gypsum rock used and the modern manufacturing processes bring out the full cementing strength, so that every other plaster is excelled in density and firmness.

The plaster is on to stay --there is practically no upkeep cost, decorations last longer and repairs are minimized.

THE MARK OF SUPERIOR QUALITY

The RED TOP is the mark of a standardized plaster, produced under highest manufacturing standards and exclusive processes. It is really plaster insurance to every architect, owner, contractor, plasterer and dealer --and indicates plaster that will work uniformly and satisfactorily in every locality.

INSIST ON THE RED TOP BAG

The RED TOP on the bag of USC plaster is your protection--look for it.  
It means the best plaster to be obtained anywhere at any price.  
It means the easiest working material any plasterer ever handled.  
It means greater yardage and larger output.  
It means absolutely uniform and dependable plaster prepared for your locality.  
It means hard, strong walls that withstand severest wear and tear.  
Insist on the RED TOP bag--it protects you.

US CEMENT PLASTERS

THESE cement plasters are "real" materials, supplied fibred or unfibred--sand to be added at the job. These materials are made for use where good sand is available at reasonable cost, and where the trade prefers to sand its own mortar.



Brands

- Red Top
- Alabaster
- Arden Hardwall
- Rig Four
- Buckhorn
- \*Eldorado
- Granite
- Imperial
- Ivory
- \*Pyramid
- Kings Windsor

Advantages

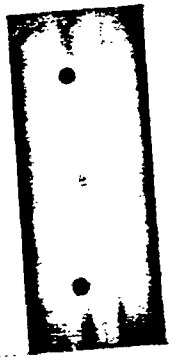
These materials are unusually rich, spread well under the trowel and, when mixed properly with a good grade of sand, are uniformly satisfactory both in working qualities and ultimate results in the finished wall.

COVERING CAPACITY--(Refer to page 18.) Basis: Average quantity of above material required per 100 square yards of surface, mixed and applied according to standard specifications (see pages 15 and 16).

| Plastering Surface         | Wood Lath               | Metal Lath               | Plaster Board          | Block and Clay Tile Walls | Pyram Tile               |
|----------------------------|-------------------------|--------------------------|------------------------|---------------------------|--------------------------|
| No. 100-lb. sacks required | 9 to 11 (Sanded 2 to 1) | 17 to 20 (Sanded 2 to 1) | 8 or 9 (Sanded 2 to 1) | 14 to 17 (Sanded 3 to 1)  | 10 to 12 (Sanded 3 to 1) |

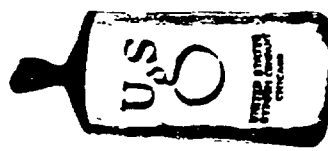
PACKAGE--Shipped in full weight 100-lb. cloth sacks or 80-lb. paper bags. Kings Windsor also supplied in 320-lb. (300 lbs. net) barrels.

\*Gypsite plasters--popularly known as "dark plasters." The distinguishing features of gypsite are its long-keeping and easy-spreading qualities. Gypsite plasters are extensively used in the south and southwestern states, as they meet perfectly the climatic and building conditions of these sections.



# U.S. WOOD FIBRE PLASTERS

THESE plasters require the addition of water only to fit them for use. The sand is replaced by finely shredded wood fibre, uniformly distributed.



## Brands

- Red Top
- Alabaster
- Big Four
- Buckhorn
- Eldorado
- Granite
- Imperial
- Ivory
- Kings
- Pyramid

## Advantages

Wood fibre plasters avoid the handling of sand, the dangers of poor sand and oversanding, and consequent bad results.

Composed of gypsum and shredded wood fibre, they are of greater bulk, lighter, and make a wall about one-half the weight of sanded mortar.

Through the elimination of sand, the wall is practically made of gypsum, wood fibre serving as a reinforcement, making walls of great toughness and strength.

These walls can be sawed into like wood and are especially adaptable to alterations.

Gypsite plasters—popularly known as “dark plasters.” The distinguishing features of gypsite are its long keeping and easy-spreading qualities. Gypsite plasters are extensively used in the south and southwestern states, as they meet perfectly the climatic and building conditions of these sections.

## Wood Fibre Plasters (Cont.)

Wood fibre plaster is superior to sanded plaster in fire resisting, insulating and sound deadening qualities.

It makes walls of greater density and durability.

Its flexible nature renders it more capable of withstanding vibrations and other strains imposed upon the building.

It is especially desirable for winter use.

Its very smooth and fatty nature gives it easy spreading and excellent working qualities.

Because of these advantages, as well as the labor and time saving feature which makes them nearly as economical in cost as cement plasters, our wood fibre plasters are rapidly gaining in popularity. In many markets they are used almost exclusively.

COVERING CAPACITY: (Refer to page 18.) Basis: Average quantity of above material required per 100 square yards of surface, mixed and applied according to standard specifications (see page 17).

| Plastering Surface         | Wood Lath           | Metal Lath          | Plaster Board       | Brick and Clay Tile                      | Pyrobar Tile                             |
|----------------------------|---------------------|---------------------|---------------------|------------------------------------------|------------------------------------------|
| No. 100 lb. sacks required | 14 to 17 (unsanded) | 22 to 27 (unsanded) | 13 to 16 (unsanded) | 18 to 20 (Equal parts sand to be added.) | 14 to 16 (Equal parts sand to be added.) |

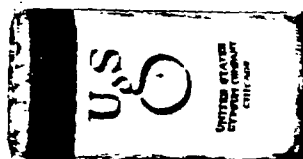
PACKAGE:—Shipped in full weight 100-lb. cloth sacks or 80-lb. paper bags.

## U.S. PREPARED PLASTERS (Sanded)

THESE plasters need only the addition of water to fit them for application. The ingredients, gypsum cement plaster, sand, etc., are correctly proportioned and are mixed thoroughly by automatic machinery.

### Brands

- Red Top
- Ivory
- \*Adamant
- FKings Windsor



### Advantages

Prepared plasters are especially desirable in localities where good sand is difficult to obtain. There is nothing but sharp, clean silica sand, properly graded, screened and thoroughly dried.

These plasters are particularly well adapted for use in winter, as they have the advantage of being ready to apply, when unfrozen sand is difficult or expensive to obtain.

As the plasters may be readily mixed inside the building, they are useful for repair and remodel work in all seasons.

**COVERING CAPACITY**—(Refer to page 18.) **Basis:** Average quantity of above named material required per 100 sq. yards of surface, mixed and applied according to standard specifications (see page 48).

| Plastering Surface         | Wood Lath | Metal Lath | Plaster Board | Brick and Clay Tile | Pyrobar Tile |
|----------------------------|-----------|------------|---------------|---------------------|--------------|
| No. 100-lb. sacks required | 22 to 24  | 45 to 50   | 20 to 22      | 35 to 40            | 25 to 28     |

**PACKAGE**—Shipped in full weight 100-lb. cloth sacks or 80-lb. paper bags.

\* See following page.

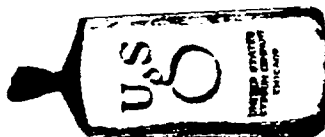
† Furnished as Prepared Lath Mortar—also Prepared Browning Mortar for brick or tile, the latter in 100-lb. cloth sacks only.

## U.S. ADAMANT PREPARED PLASTER

ADAMANT Prepared Plaster is a special grade of sanded plaster. Special formulas are made for the various uses as follows:

### Brands

- Adamant No. 2B, Base Coat on Brick or Tile.
  - Adamant No. 2, Base Coat on Wood Lath or Plaster Board.
  - Adamant No. 2W or 1, F, Scratch Coat on Wire Lath.
  - Adamant No. 2HW, Second Coat on Wire Lath.
- There is an Adamant Plaster specially mixed for every base.



### Advantages

All ingredients used in this plaster are selected with extreme care, and every step in the manufacture of the material is done under the most rigid supervision, all plaster being carefully tested to insure against defects.

Because Adamant Prepared Plaster is a special grade plaster and costs more than other plasters, architects who wish this material used on their jobs should avoid substitution by a straight specification as follows: "Plaster to be ADAMANT Prepared Plaster, manufactured by the United States Gypsum Company, the plaster to be mixed with water only and applied as directed by the manufacturer."

**COVERING CAPACITY**—(Refer to note, page 18.) **Basis:** Average quantity of above named material required per 100 sq. yards of surface, mixed and applied according to standard specifications (see page 48).

| Plastering Surface                      | Wood Lath    | Metal Lath   | Plaster Board | Brick and Clay Tile | Pyrobar Tile |
|-----------------------------------------|--------------|--------------|---------------|---------------------|--------------|
| No. 100-lb. sacks required per 100 yds. | 2200 to 2400 | 4500 to 5000 | 2000 to 2200  | 3500 to 4000        | 2500 to 2800 |

**PACKAGE**—Shipped in 100-lb. cloth bags or in 80-lb. paper bags.

**NOTE**—For Adamant Prepared Finishes see page 25.

# BONDERETE FOR CONCRETE

THIS plaster is specially prepared to meet the peculiar requirements of concrete, which are different from those of any other plastering surface.

Bonderete Plaster counteracts the bond breaking effect of the surplus water expelled from the concrete during crystallization and drying out. It adheres strongly to the concrete because of its cementitious qualities and because it maintains a practically unchanging volume during the process of setting and hardening.

The thickness and density of a concrete wall requires many months for it to become thoroughly dry. During this time the moisture is expelled to the surface; occasionally it brings with it an efflorescence in the form of salts, frostlike in appearance, which is deposited on the surface of the concrete, and destroys the bond between the concrete and the plaster. While no plaster could withstand a severe condition of this kind, Bonderete Plaster has proved to be the most reliable plaster available for concrete surfaces.

Bonderete Plaster is dense, durable and fire-resisting. It works well under the tools, and needs only water to fit it for use. Its adaptability for concrete surfaces has gained the favor of the architect, contractor and builder.

Bonderete must not be covered with a sanded brown coat -- use only the Bonderete itself to bring to grounds.

Bonderete may be finished with a light skim coat, using any of the gypsum finishes described on pages 24 and 25.

COVERING CAPACITY 14 to 16, 100 lb. sacks per 100 sq. yds., average conditions, mixed and applied according to standard specifications (see page 48).

PACKAGE -- Shipped in 100 lb. cloth sacks or 80 lb. paper bags.



## A WORD ABOUT COVERING CAPACITY

THE covering capacity of United States Gypsum Company Cement, Wood Fibre, and Prepared (Sanded) Plaster is as great for each type of material as it is possible to attain.

Covering capacity necessarily depends upon conditions under which the plaster is applied, upon the mechanic, thickness of the grounds, kind and trueness of the plastering surface, spacing of lath, quality of sand, etc.

The covering capacity given in this Red Book in connection with each type of material, and for the various plastering surfaces, is based upon average conditions, and may be accordingly accepted as a safe basis for figuring the quantity of each class of material required according to our specifications as given on pages 45 to 48.

## US GAUGING PLASTERS

Used with Lime Putty

THESE plasters are made of raw materials carefully selected from gypsum deposits unusually well suited for the manufacture of calcined plasters for this particular purpose. They are made in both "slow set" and "quick set," and are uniformly ground to just the right fineness to insure easy working and mixing qualities. These finishes are to be gauged with lime putty in the usual manner.



### Brands

(SLOW SETTING)

Star (Pure White)  
 Challenge (Pure White)  
 Kings Windsor Superfine (Pure White)  
 Arden Superior Finish  
 Quality  
 Pearl (Oakfield Mill only)  
 Matchless (Loveland Mill only)

### (QUICK SETTING)

Champion (Pure White)  
 \*Kings Diamond (Pure White)  
 \*Kings Hillsboro (Pure White)  
 Big Four  
 Michigan "A"  
 N. Y. C. Mills

PACKAGE - Shipped in 100 lb. cloth sacks, 100 lb. paper lined cloth sacks, 80 lb. paper bags, 250 lb. (230 lbs. net) barrels and 320 lb. (300 lbs. net) barrels.

NOTE: United States Gypsum Company's Ivory for Grand Prize Hydrated Lime described on page 21 is recommended for use with these plasters. It is of the same high standard of quality as all of the gypsum products of this company.

See Specifications and Directions for Applying, page 19  
 \* Kings Diamond and Hillsboro Brands furnished in Fine quick setting and FF (extra fine quick setting).

## US IVORY AND GRAND PRIZE US HYDRATED FINISHING LIME

THERE are today few users of lime who do not know the economy and convenience of using hydrated lime instead of lump lime. Besides saving all the time and trouble of slaking lime on the job, it is in every respect a more satisfactory and dependable material.

Ivory and Grand Prize Hydrated Lime are specially prepared for finishing purposes. They possess a rich plasticity that makes them spread easy and far. Due to the peculiar chemical composition of the dolomite from which they are made, Ivory and Grand Prize Hydrate have a high water carrying capacity and "work fat." This "butter like" spreading quality saves time and labor.

### Characteristics

*A pure dolomite (magnesium) product.*

*Uniformly burned and thoroughly hydrated.*

*Uniform strong whiteness.*

*Freedom from foreign matter.*

*Smooth, easy-working under the trowel.*

*Exceptional covering capacity.*

*Freedom from pops and pits.*



### Advantages

Ivory and Grand Prize Hydrate keep well in storage, stock much better than ordinary lump lime and do not air slake. Their long keeping properties are an advantage to both the contractor and the dealer, allowing them to purchase in larger quantities with the assurance of having good material at all times. They store safely. There would be no fire hazard if the material should come in contact with water during storage. You



will find that Ivory and Grand Prize Hydrate most satisfactorily meet all lime requirements.

**Covering Capacity**—Depends upon the conditions under which material is applied, upon the mechanic and the trueness of the base coat. The average covering capacity of Ivory and Grand Prize Hydrated Lime when applied as a lime putty finish is about four 50 lb. bags per 100 sq. yds. It will spread as far, if not farther, than any other hydrated lime.

**PACKAGE**—Shipped in 50 lb. paper bags.  
See Specifications for use with Gauging Plasters on page 40.

### Hydrated Lime in 10-lb. Packages

**T**HE unusual purity of Ivory Hydrated makes it valuable for other purposes besides building operations. It is also used for overcoming some soil conditions in gardens and lawns; disinfecting stables, poultry houses and outbuildings; whitewashing cellars, fences, brick walls, partitions and other surfaces.

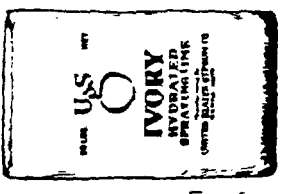
The small package is handy and economical for such repair work as plaster patching, white coating, small jobs of brick pointing, and similar work.

**PACKAGE**—Shipped in 10 lb. paper bag.



### Ivory Hydrated Spraying Lime

**I**VORY Hydrated Spraying Lime meets the needs of orchardists, nurserymen and others who require a trouble-free material for spraying purposes.



Besides its exceptional purity, Ivory is ground extremely fine, and there is entire absence of grit or any abrasive substances that may clog or wear the spraying mechanism.

Ivory is successfully used by some of the largest insecticide companies, and is a most satisfactory spraying lime for general use.

**PACKAGE**—Shipped in 50 lb. paper bags.

### USG MASONS' HYDRATE

**U**S G Masons' Hydrate is advantageous for the dealer to stock because it is not a fire hazard, and, properly warehoused, it will keep almost indefinitely without loss due to air slaking.

Builders prefer U S G Masons' Hydrate because of its convenience, increased satisfaction and economy as compared to lump lime.

Being already slaked, it saves all the time and labor of screening and slaking lime on the job.

Slaked at the mill under ideal conditions, it obviates mistakes at the mortar box.

#### Uses of U S G Masons' Hydrate

U S G Masons' Hydrate may be used for almost any purpose for which lump lime was formerly used, and for each it gives better, quicker, and more economical results.

It has stores of agricultural, chemical and industrial uses. Its three most important construction uses are: In Portland Cement Mortars to add plasticity; in Concrete Mixtures to increase the flowability, lessen the danger of the sand and stone separating from the cement when pouring, and increase the density and water-tightness of the concrete; in Stucco to improve the working qualities, increase the water-tightness, and, by holding moisture during the hardening period, to reduce shrinkage and lessen the danger of check cracking.



#### Directions for Mixing

For Mortar or Stone or Brick Masonry, use one sack (50 lbs.) of U S G Masons' Hydrate to every 100 lbs. of Portland Cement. This proportion is equal to about 43 lbs. of U S G Masons' Hydrate to a 94 lb. sack of Portland Cement.

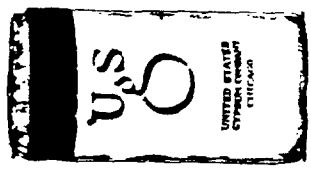
For adding waterproofing qualities to concrete, the following quantities of U S G Masons' Hydrate are recommended for each 94-lb. bag of cement:

- 1-1 1/2 : 3 mix, 7 lbs. Masons' Hydrate
- 1-2 : 3 mix, 10 lbs. Masons' Hydrate
- 1-2 1/2 : 5 mix, 12 lbs. Masons' Hydrate
- 1-3 : 5 mix, 15 lbs. Masons' Hydrate

**PACKAGE**—Shipped in convenient 50 lb. paper bags.

# **US PREPARED FINISHES** *Used Without Lime Putty*

THESE finishes require only the addition of water to make them ready for use. They entirely eliminate the troubles common to lime finishes. Made from gypsum, they form a perfect and natural bond with any gypsum plaster base coat.



## **Brands**

- |                    |                     |
|--------------------|---------------------|
| TROWEL FINISHES    | SAND FLOAT FINISHES |
| Universal No. 1    | Universal No. 1     |
| Universal No. 3    | Universal No. 3     |
| Radger             | Radger              |
| Kings Ready Finish | Kings Ready Finish  |

Universal No. 3 and Kings Ready Finish are pure white—all others are grayish-white in color.

## **Advantages**

These finishes, being ready to use when water is added, save time and labor. No slaking or other preparation is necessary. They assure a uniform mix of correct proportions. No mistakes at the mortar box. They set up hard within a few hours, possess great density and are hard and durable. They entirely eliminate "pops," "pits," and "chip cracks." Decorations of any kind may be immediately applied as soon as the finish dries out with no danger of injury to the most delicate tints.

COVERING CAPACITY: 5 to 6 100-lb. sacks of trowel finish and 7 to 8 100-lb. sacks of sand float finish will cover 100 sq. yards, average conditions.

PACKAGE—Shipped in full weight 100-lb. cloth sacks or 80-lb. paper bags. Kings Ready Finish (Trowel) in 100-lb. cloth sacks only.

See Specifications on pages 49 and 50

# **US ADAMANT PREPARED FINISHES** *"Highest Standard of Excellence"*



THESE finishes are of extra fine quality, being made from specially selected materials and possessing exceptional beauty and hardness. No pains or expense is spared to make them perfect.

## **Brands**

- |                     |                     |
|---------------------|---------------------|
| TROWEL FINISHES     | SAND FLOAT FINISHES |
| No. 1 XXX, White    | No. 1 XXX, White    |
| No. 1, Gray         | No. 1 X, Gray       |
| No. 40, Slate color |                     |

Adamant 1 XXX is a white trowel finish of exceptional quality and hardness.

Adamant 1 XX sand float, is a true, beautiful, uniform white, of just the right fineness to give an especially pleasing granular surface of remarkable uniformity. Also unequalled in artistic effect for mural decorations.

COVERING CAPACITY: 4 to 6 100-lb. sacks of Adamant Trowel Finishes and 6 to 8 100-lb. sacks of Adamant Sand Float Finishes will cover 100 sq. yards, under average conditions.

PACKAGE—Shipped in 100-lb. cloth sacks or 80-lb. paper bags.

See Specifications on pages 49 and 50



# US IVORY KEENE'S CEMENT

IVORY Keene's Cement is the hardest and densest gypsum material that is applied with a trowel. It is pure white in color and takes a very high polish.



Ivory Keene's Cement is manufactured from specially selected gypsum mined at Southard, Oklahoma. Owing to this fact, to our improved methods of manufacture, to the greater fineness to which the material is ground and to our rigid mill inspection, Ivory Keene's Cement excels in smooth, uniform working qualities and in tensile strength.

Ivory Keene's Cement is also regarded by many manufacturers as the best on the market for scagliola work. Its extreme fine grind, purity and hardness make it especially suitable for this purpose and it can be polished to perfectly imitate marble.

## Advantages

Ivory Keene's Cement should be used for every class of public or private building where interior walls or cast decorations possessing the dignity and permanence of marble are desired. Keene's Cement resists fire. Its hard surface can be polished to the smoothness of glass. It is impenetrable to rodents and vermin, and does not afford lodgment for disease germs. It is easily cleansed. It contains no alkali to stain delicate wall tints or saponify the oil in paint, hence it is a safe base for fine decorations. It may be retempered and used unless it becomes dry.

**COVERING CAPACITY**—5-100 lb. sacks per 100 square yards when used neat; 4-100 lb. sacks per 100 square yards when mixed 4 to 1 with hydrated lime.

**PACKAGE**—Shipped in 100-lb. cloth or paper-lined cloth sacks.

See Specifications on Page 80

# US Aridize PLASTERS

Pottery—Moulding—Gauging—Dental

THESE plasters are produced by a manufacturing process, patented by the United States Gypsum Company, which artificially ages the gypsum plaster, making it equal to plaster one year old when produced.

Heretofore, plasters have been aged by storing in warehouses, but the results could not be uniform because of variation in temperature and humidity conditions. The production of Aridize Plasters, however, depends in no way on the atmospheric conditions, for an artificial atmosphere is produced at a temperature and humidity that will give a uniform aging and a plaster that is always uniform.

Pre-aging lowers the water carrying capacity of the plaster and hence Aridize Plasters set into denser, stronger and more durable moulds.

Even when green, moulds made of these plasters possess great strength, and breakage by handling and manipulating in the moulding and casting stage is diminished.

Aridize Plasters are ground much finer than other similar products. This assures a more thorough solution and a finer surface to the finished work and an absence of pin holes. The fine satin like surface means longer lived moulds.

In addition to these qualities, Aridize Plasters are cooler working and slower setting, which accounts for low expansion and absence of warped moulds. But very little heat is generated in setting, so that gelatin moulds are not damaged. The slow setting gives time for proper bleeding and working out of trapped air bubbles and working the plaster into angles or corners of moulds.

Aridize Plasters are always uniform in water carrying capacity and working qualities. Every shipment is the same. They always produce the same dense, strong durable moulds with a smooth satin like surface free from pin holes.

Aridize Plasters are produced from selected gypsum rock and are unequalled for whiteness and purity.



## U.S. Aridize MOULDING PLASTERS



THE requirements for moulding plaster are distinctly different from any other class of plaster. Gypsum deposits suitable for making this material are exceedingly rare. Our moulding plasters are made from selected gypsum rock ideal for the purpose, which, together with our special process of manufacture, accounts for the smooth working and uniform setting qualities which have made these materials so popular.

### Brands

U. S. G. Moulding No. 1 Kings Diamond FFF  
U. S. G. Moulding No. 2 Kings Hillsboro FFF  
Golden Seal Moulding New York City Mills  
Ivory Moulding Arden

U. S. G. Moulding No. 1 and No. 2, Golden Seal, Kings Diamond FFF and Kings Hillsboro FFF are pure white and extremely fine grained - the highest quality moulding plasters obtainable.

### Advantages

These plasters have all the advantages outlined on page 27 for Aridize Plasters. They are smooth and easy working, uniform in strength and time of set, qualities that are most sought for ornamental work.

PACKAGE - Shipped in 100-lb. cloth sacks, 100-lb. paper-lined cloth sacks, 80-lb. paper bags and 250-lb. (230 lbs. net) barrels.

Kings Diamond and Hillsboro brands also shipped in 50-lb. paper bags and 320-lb. (300 lbs. net) barrels.

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## U.S. PLASTER SPECIALTIES

IN addition to the complete line of wall plasters previously described, the United States Gypsum Company laboratories have developed and perfected a number of specialties which are recognized as leaders in their respective classes. They excel because of the careful selection and scientific processing of the gypsum rock, which is mined at Southard, Oklahoma, and in Nova Scotia - deposits unequaled by any in the world for purity and whiteness.

### Aridize Pottery Plasters

These plasters blend perfectly, and distribute evenly in the water, resulting in a smooth, rich, creamy consistency which flows into every tiny crevice of the mould. Here it sets rock-hard in a few minutes, becoming equally strong and dense throughout.

#### Brands

Ivory Pottery Plaster Kings Pottery Plaster  
PACKAGE - Shipped in 80-lb. paper bags, 100-lb. cloth sacks, 250-lb. (230 lbs. net) barrels and 320-lb. (300 lbs. net) barrels.

### Aridize Dental Plasters

These plasters are the highest quality of dental plaster possible to produce. They are entirely free from grit or other foreign ingredients.

#### Brands

White Star Laboratory Dental Plaster; Kings Diamond (Regular)  
White Star Impression Dental Plaster; Kings Diamond (Quick Set)  
PACKAGE - Shipped in 100-lb. cloth sacks, 100-lb. paper-lined cloth sacks, 250-lb. (230 lbs. net) barrels and 320-lb. (300 lbs. net) barrels.

### Quality Orthopedic Plaster

The uniform fineness of particles of this plaster gives the wet mixture a smooth-working plasticity that insures thorough and even filling of the meshes of the bandage.

Setting is controlled to give plenty of time for moulding. The plaster has concentration qualities which produce an exceedingly close-knit, tough, durable cast.

PACKAGE - Shipped in 100-lb. cloth sacks, 100-lb. paper lined cloth sacks or 250-lb. (230 lbs. net) barrels.

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## **BEN FRANKLIN** **AGRICULTURAL GYPSUM** (Land Plaster)

**S**oil fertility depends upon the presence in the soil of ten chemical elements. Six of these elements are abundantly supplied by rain or are present in sufficient quantities in the soil itself. The four remaining elements the farmer must put back artificially in order to maintain maximum fertility. These four are sulphur, calcium, nitrogen and phosphorus.

Ben Franklin Agricultural Gypsum supplies sulphur in the immediately available sulphate form. It supplies calcium. And it supplies nitrogen in the only way that is economical for general farming.

Ben Franklin Agricultural Gypsum is made by grinding gypsum rock extremely fine. Gypsum should not be confused with lime, for it is a true crop food. Its action is neutral—it neither sweetens nor sours soils. Its principal uses are as follows:

1. It is used as a crop food for legumes, alfalfa, clover, beans, peas, vetch, peanuts and other crops of high sulphur requirements, for the purpose of supplying sulphate sulphur, also calcium.

- By enormously increasing the size of legumes, their root systems and the size and number of their nitrogen-fixing organs, Ben Franklin Agricultural Gypsum adds greatly to the store of nitrogen in the soil.

2. It is used as a preserver of nitrogen in barn-yard manure, every dollar's worth saving two dollars in nitrogen.

3. It is used in combination with ground rock phosphate as a complete, economical substitute for acid phosphate.

4. It is used on all crops, particularly on truck gardens to increase the absorption of potassium (potash), phosphorus and other soil elements.

5. It is used to better the condition of soils, acting as a specific for black alkali, and loosening heavy clay soils. It is also extensively used as a carrier for Paris green and other insecticides.

**PACKAGING**—Shipped in 200-lb. non-returnable cloth sacks, 100-lb. returnable cloth sacks and 80-lb. paper bags.

## **PLASTER PACKAGE**

**E**VERY package of United States Gypsum Company Plaster bears our trademark as shown in the illustration. Each sack is tagged according to brand, with directions for mixing on the back of the tag, and, with certain exceptions, also on the paper bags.



### Paper Bags

Dealers and users of plaster prefer the paper package because it is light in weight; easily handled and stored; gives better protection from dampness, etc.; avoids the expense and labor incident in preparing empty cloth bags to be returned; and is a cleaner package.

Where plaster is ordered in paper bags, the dealer and contractor do not have an investment tied up without interest while bags are being returned for credit; do not have to lose the value of sacks stolen from the job or damaged.

In view of these advantages, the paper bag is the most satisfactory plaster package both from an economical as well as practical angle.

### Cloth Sacks

When plaster is ordered in jute sacks, these are sold with the plaster and repurchased when returned, freight prepaid, to the mill from which plaster shipment was made, according to our customary terms.



100 lb. Cloth or Jute Sack

When returning empty cloth plaster sacks, for repurchase, they should be bundled in lots of 50, each bundle securely tied with three wires or 3/16" rope, one wire at each end and a wire in the middle.

A linen tag should be attached to each bundle plainly showing shipper's name and address. This method is required by the transportation companies. If this is not done the shipment takes a higher freight rate. Bills of lading covering shipment must be mailed direct to our General Offices at Chicago and sacks shipped to mill from which they were received.

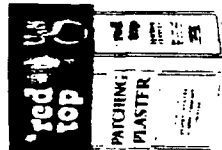
## US **red top** PATCHING PLASTER

**RED TOP** Patching Plaster is the finest material obtainable for filling plaster cracks, breaks and crevices. Red Top is uniform in quality and color goes farther works easier and is more quickly applied.

The set is regulated to permit easy spreading and proper drying without shrinkage cracks. This makes a hard, strong surface that withstands wear and tear, and that takes paint, calcimine, wallpaper or Textone like a new wall, without discoloration.

Red Top mixes easily with clean water; nothing else is to be added.

**PACKAGE:** Supplied in convenient 2 1/2 and 5 lb. packages, with a distinctive red top.



## US **ORIENTAL STUCCO**

**ARCHITECTS** in every land have long regarded stucco as the ideal medium for the expression of beauty in form, texture and color, but certain limitations in both the material itself and its application have kept stucco from attaining the prominent place in American architecture that it deserves.

The chief limitation of stucco heretofore has been the difficulty of producing the desired texture and color to harmonize with the architectural design when the color has to be mixed in on the job, or of matching a certain color when the batches are mixed at different times or under different conditions.

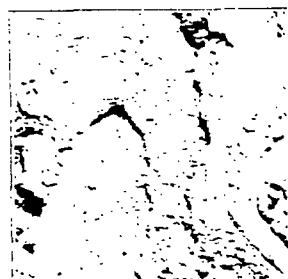
Oriental Stucco is the product of careful and thorough investigation and research by the United States Gypsum Company. It is scientifically compounded and is waterproof, nonstaining, plastic, easy to apply, and permanently durable.



### The Base Coat

Oriental Stucco Base Coat is a specially prepared, laboratory-mixed cement, scientifically prepared for Oriental Stucco Finish, with the correct proportion of uniformly graded, carefully selected sand and other ingredients to make it plastic and waterproof.

Early mixing prevents oversanding or improper pro-



English Stucco

GP 43 0638

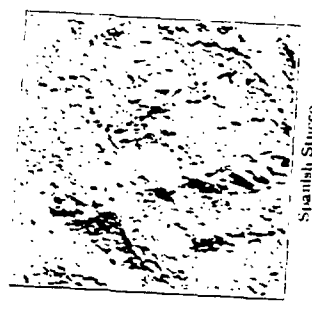
portioning of other ingredients on the job. Its uniformity assures perfect joinings of various mixes that will not show through the delicate coloring of the finish coat.

Being ready for use by adding water only, it is economical of time and labor and assures a base of uniform color and strength.

### The Finish Coat

Oriental Stucco Finish Coat is a hydraulic lime base mixed with mineral colors and prepared with ingredients that make it waterproof and non-staining. The formula used is based upon the methods used in producing the famous Old World stuccos and one successfully used in America for more than a decade.

Oriental Stucco Finish Coat is furnished in white and eleven standard colors. All ingredients, including the mineral colors are mixed by automatic machinery, which accurately weigh each ingredient. A uniform color and correct mixture is thus assured, entirely eliminating the unavoidable variations when stucco is hand mixed on the job.



Spanish Stucco

Oriental Stucco sets slowly enough to permit proper finishing, thus avoiding unsightly streaks or shading. It can be troweled or given any desired texture. It is ready for use by adding clean water only.

Oriental Stucco Base and Finish contain no ingredient that will in any way weaken or corrode steel reinforcement.

### Bases Upon Which Applied

Oriental Stucco may be applied over metal lath, wire lath, steel fabric, tile, brick, concrete and over Gyp-Lap wall construction. It is also especially adaptable for over-coating old cement stucco walls, masonry surfaces, and the walls of frame buildings.

Successful stucco work depends in a large measure upon suitable design of the structure, and upon careful preparation of the backing for the stucco.

Proper manipulation by the workman will produce in Oriental Stucco the beautiful texture and color effects that mark the finest of both Old World and Modern stucco work.

Besides the period textures, Oriental Stucco Finish is adaptable to the entire range of stucco treatment known to architects. It is equally easy to achieve the smooth trowel, stipple, sponge, rough-cast, spatter-dash or applied aggregate finishes, according to individual taste or requirements.

**PACKAGE:** Oriental Stucco Base Coat and Finish Coat are furnished in 80 lb. paper bags ready for use with the addition of water only. Oriental Stucco Finish should always be ordered by number on the color plates.

**COVERING CAPACITY:**—One ton of Oriental Stucco Finish, not to exceed 1/4" in thickness, will cover from 150 to 200 sq. yds., depending on the texture desired.

The approximate covering capacity of one ton of Oriental Stucco Base Coat (scratch and brown coats), on the basis of the average job, is as follows:

| Plastering Surface | Brick and Clay Tile | Metal Lath | Wire Fabric | Cement and Cinder Filler |
|--------------------|---------------------|------------|-------------|--------------------------|
| Number of Yards    | 20 to 25            | 20 to 22   | 20 to 25    | 20 to 25                 |



## ROCKLATH

The Fireproof Plaster Base

**R**OCKLATH is the modern fireproof plaster base used instead of wood or metal lath. It is not only desirable but essential for fire protection, fuel economy, sound deadening and permanence of plastered walls and ceilings. Rocklath is a solid sheet of gypsum encased in a tough fibrous covering, forming a strong, uniform, fire resisting plaster base. The uniform suction of this covering affords a perfect bond with gypsum plaster.

The boards are 32" x 48", 3/4" thick. They are easily nailed to wood studding, lurring or joists, and are then plastered with regular gypsum plaster.

Rocklath combines lathing, fire protection and heat, cold and sound insulation in one inexpensive material. Swelling, warping and buckling of wood lath are done away with. The quality, unlike wood lath, is always A-1. This material is the quickest and easiest "lath" to apply and plaster over. The gypsum plaster adheres to it perfectly.



## Advantages of Rocklath

**No expansion or contraction.** Will not swell, warp or buckle when plaster is applied, hence will not shrink when plaster dries out.

**Keeps the moisture from wet plaster away from wood work.**

**Does not require swelling before plastering.**

**Prevents waste of plaster pushed between and back of wood and metal lath.**

**Can be applied in about one-half the time required for wood or metal lath.**

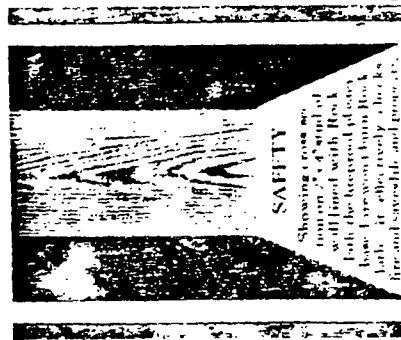
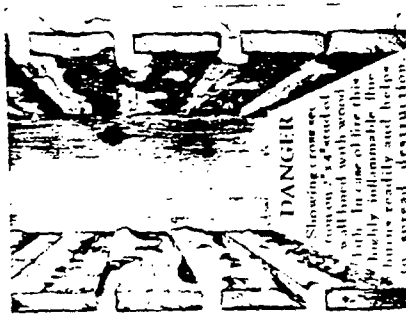
**Makes a cooler house in summer and a warmer one in winter,** because gypsum is one of the best known non-conductors of heat and cold. This insulation assures economy in fuel.

**Fireproof.** Will not burn or readily transmit heat, thus insulating the wood construction and confining the fire to the room in which it originates.

**Sound Proof.** Gypsum is recognized as a poor conductor of sound. Tests show that plaster board and plaster walls are far more effective in resisting sound than wood lath and plaster.

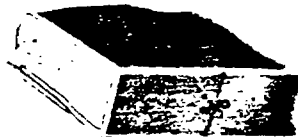
**Permanent.** Will not decay, rust, shrink or warp. Nothing to impair or discolor the plaster.

**Costs less for the completed job.** Than metal lath and plaster, and but little more than wood lath and plaster.



### Specifications for Rocklath

Rocklath (Plaster Board) with 1/2" of United States Gypsum Company's Wall Plaster



**Grade:** 7/8" (1 1/2" plaster).

**Backing:** To be 1/2" ROCKLATH, the Fireproof Plaster Board. Size of sheets, 36" x 48", the 48" length having both edges endued and reinforced.

**Framework:** Studling, joists and furring shall be set on 16" centers and evenly lined up.

**Application:** Place the ROCKLATH sheets in parallel courses with 48" length across studling, furring or joists. Always place trade mark side of board against supports.

**Breaking Joint:** Break joints on studling, joists or furring. The continuous joints run crosswise at right angles to studling, joists or furring.

Stagger joints between walls and ceiling so vertical joints on wall will not meet ceiling joints.

**Spacing:** Butt all horizontal continuous joints; leave a space of 1/4" between mill ends joining on studling, joists or furring.

**Corners:** Fit the ROCKLATH sheets tightly together at all corner angles, vertical and horizontal.

**Cutting Rocklath:** Score with a sharp bats let or knife, and then break down and run over a straight edge.

**Nailing:** Nails shall be 3d cement-coated or galvanized. Space nails 12" apart on side walls and 36" apart on ceilings. First nail board to intermediate supports; then outer edges, spacing nails 12" from outer edge. Nail each corner of board. Each nailing edge of ROCKLATH must have a bearing on studs, joists or furring of not less than 1 1/2". Drive all nails "home"—straight, firm and tight, but not far enough to rupture sheets.

### PLASTERING

**Do not wet ROCKLATH before plastering**

**Plaster:** To be any brand of United States Gypsum Company's Current Plaster in red top bags, mixed at the job with two parts sand (A. S. I. M. specification) by weight or U. S. G. Wood Filler or Prepared (Sanded) Plaster in red top bags, used with water only. If Wood Filler Plaster, have mortar a little thin. (We require mud three coat work.)

**Three Coat Work:** First apply a scratch coat uniformly over ROCKLATH, forcing plaster well into joints to form perfect keys. Cross-hatch surface before setting to roughen. After scratch coat has set thoroughly, and before it is dry, apply brown coat filling out to ground. The total thickness of plaster over the ROCKLATH base shall not be less than 1 1/2". Red sand, dry, at angle and base to a true, even surface. If Wood Filler Plaster is used, the surface should be finished (left rough) for bonding the finish coat.

**Two Coat Work:** Same as for three coat work, except that after scratching plaster well into joints to form perfect keys, follow immediately with base coat. Plaster must be applied 1/2" thick.

**Finish Coat:** Line Plaster or Sand Float Finish, using U. S. G. Level or Grand Wire Hydrated Finishing Line and U. S. G. Dry Ceiling Plaster, mixed and applied according to directions of manufacturers or United States Gypsum Company's Prepared (No Line) Trowel or Sand Float Finish, applied according to directions of manufacturers.



### GYP-LAP

The Fireproof Sheathing

GYP-LAP is used instead of wood sheathing and building paper on frame, stucco or brick veneer construction. It is gypsum in sheets 1/2" thick, 32" wide, 8 ft. long, to fit supports on 16" centers.

**Interlocking Edges:** The long sides of Gyp-Lap have patented edges, which interlock perfectly, making a wind-tight joining which is also fireproof and impenetrable to vermin. No building paper needed.

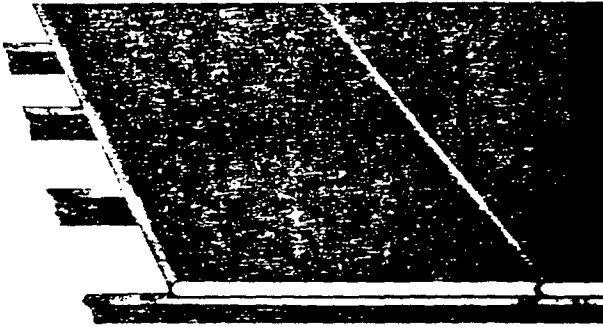
**Better Insulation:** Gyp-Lap is not only a sheathing, but it is the strongest insulating building material known. The interlocking edges

effectually seal the wall, preventing passage of heat or cold between the sheets. This protection is permanent, as Gyp-Lap does not warp, shrink or crack.

**Moisture-Proof:** The outer surface is specially treated to resist moisture. This makes it an effective non-absorbent of water from stucco, as well as an unyielding base for other types of construction.

**Fireproof:** Gyp-Lap will not burn, or transmit fire. It affords protection for inflammable framework, and reduces the fire hazard.

**Stronger:** The large units of Gyp-Lap span across seven studs on 16"



Close section of Gyp-Lap showing the interlocking joints