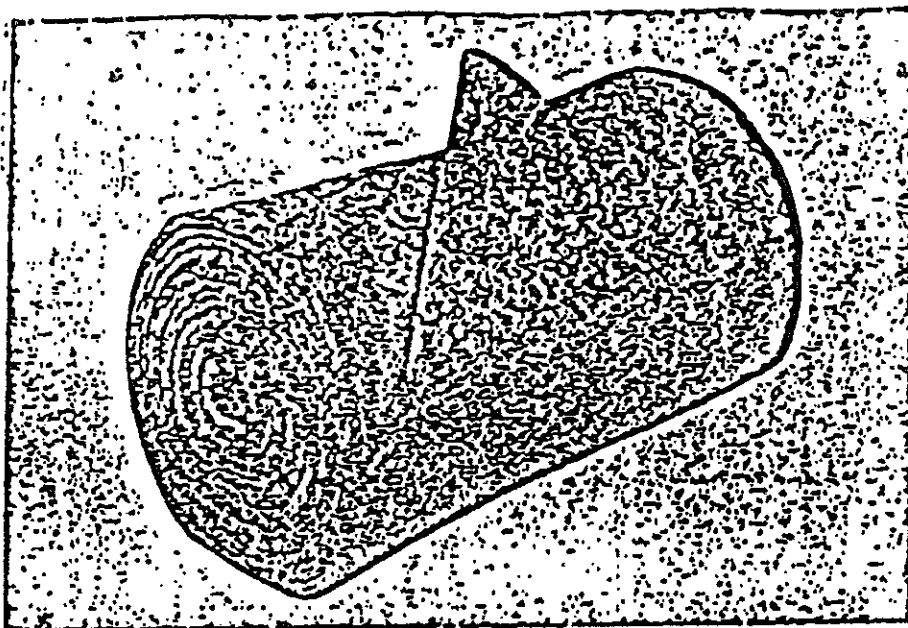


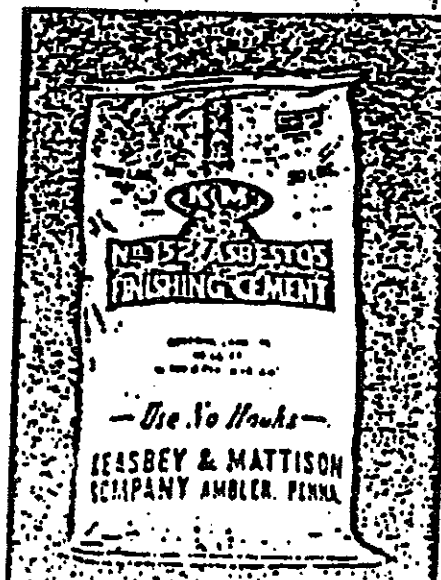
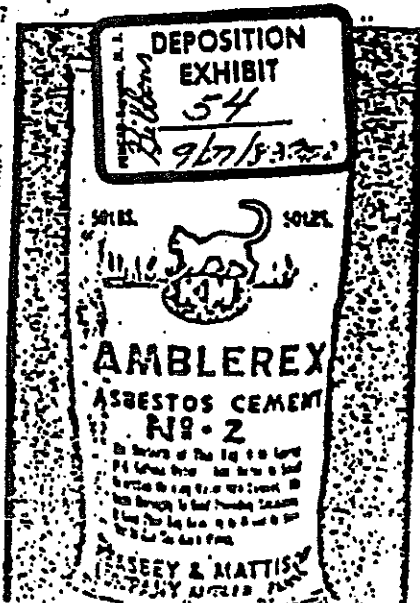
"NAVY STANDARD" HAIR FELT



Navy Standard Hair Felt is used in insulating refrigerators, refrigerator cars, tanks and insulating fittings on cold water pipes insulated with Non-Sweat Pipe Insulation. Also used in K&M Built-up Box and Ammonia Insulation, K&M Built-up Hair Felt Insulation, Non-Frost Pipe Insulation and miscellaneous insulating purposes.

Keasbey & Mattison Co., Ambler, Pa.

K&M ASBESTOS INSULATING CEMENTS



1 567



REFRACTORY & INSULATION CORPORATION

SUPER 711 INSULATING CEMENT

Trowel or Gun Grade

Combustion
Engineering

SUPER 711 Insulating Cement is a mixture of high temperature mineral fibers specially processed into resilient wool nodules, combined with asbestos and suitable binders to form a high temperature plastic insulation. Water added according to directions gives a trowelable consistency that is ready for application on equipment to be operated at temperatures up to 1800°F.

WIDE USAGE

SUPER 711 is a versatile material for many types of insulation requirements. Applied over block or blanket insulations, it fills open joints and provides a monolithic surface for whatever type of subsequent finish is specified. Its plastic flexibility permits application directly to regular or curved surfaces -- such as valves, fittings, tanks and vessels.



COMBUSTION ENGINEERING; Super 711; (Product Catalog)

EASY TO APPLY

SUPER 711 has excellent adhesive qualities. Its increased stickability means a better job in less time, from wet to dry. Will not slip or roll under trowel application and may be easily gun applied. This superior workability is a result of fine mineral nodules, special manufacturing methods and quality control.

MAXIMUM COVERAGE - LOW SHRINKAGE

SUPER 711 Insulating Cement assures maximum coverage and low shrinkage. The resilient nodules of mineral fiber do not collapse when mixed with water. See table of Physical Properties for coverage.

RECOMMENDED USES

BOILERS

- Drums
- Headers
- Walls
- Economizers
- Air Preheaters

FURNACES

- Heating
- Heat Treating
- Forging
- Annealing
- Normalizing

- OVENS, KILNS & DRYERS
- VALVES & FITTINGS
- TANKS & VESSELS

- TURBINES & PUMPS
- FAN HOUSINGS
- DUCTS & BREECHINGS

SPECIFICATION REFERENCES

SUPER 711 Mineral Fiber Insulating Cement conforms to ASTM C-195-48; Federal Specification HH-C-168 (Class C); and/or Commercial Standard CS-117 of the

1509



sole purpose of filling these small cracks, and to prevent premature vitrification which is one of the direct causes of spalling.

Air-setting high temperature cements, containing silicate of soda bonding agents have certain definite disadvantages when used as a veneer coating material. These bonding agents form a layer of material much denser than the brick structure with the result that it expands and contracts differently, which may cause the coating to flake or shell. The ideal coating is Laclede SUPREZIST MIX. This material is so compounded that such conditions do not exist. When applied as a veneer, SUPREZIST MIX forms a film similar to that of the brick structure, and since it is mixed with clean water, on drying it leaves small pores similar to the skin of your hand, and will work in about the same manner. In other words, it will expand and contract with the firebrick, and not set up any strain between expansion and contraction.

LACLEDE FURNASCOTE

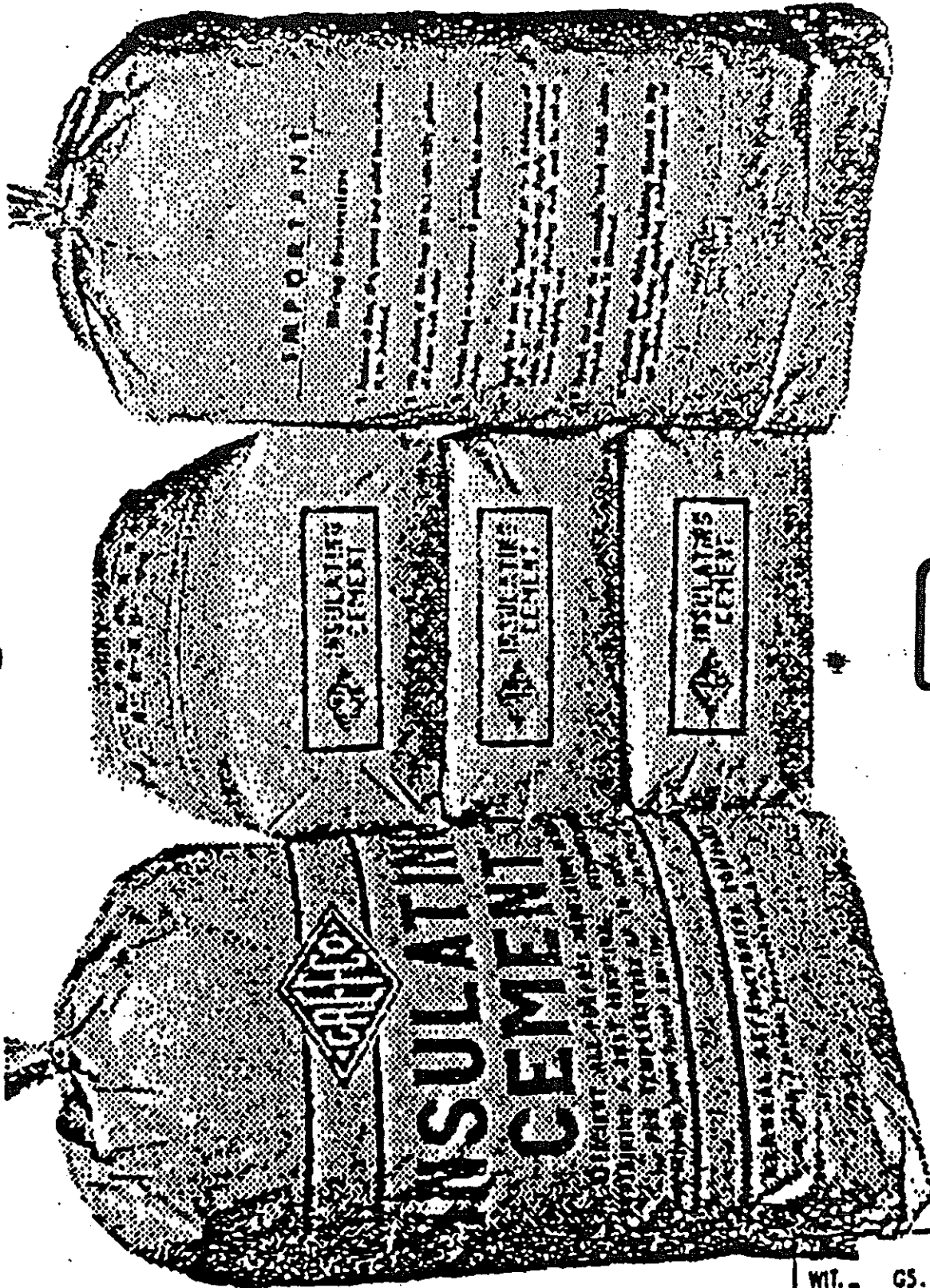
(Wet or Dry)

A coating of Furnascote increases the life and efficiency of the lining with a hard, durable, air-tight and gas-tight surface. It adheres tenaciously to old or new brick work and is highly resistant to slag, spalling, flame abrasion, high temperatures, and temperature fluctuations. Furnished wet in trowelling consistency in 100, 200, and 500 pound drums. Also in dry form for mixing to trowelling or spraying consistency, packed in 100 pound bags. Air-setting. Weight 108 pounds to the cubic foot.

LACLEDE SUPREZIST MIX

Suprezist Mix is so compounded that when used as a veneer coating it expands and contracts with the brick and does not flake or shell off. Suprezist Mix forms a film similar to that of the brick structure and, since it is mixed with clean water, it develops small pores. These pores produce a sufficient degree of flexibility to enable it to overcome strains set up by the expansion and contraction of the brick. Packed in 100 pound bags. Weight 90 pounds per cubic foot.

AN IDEAL HEAT SETTING MORTAR FOR LAYING
HIGH ALUMINA FIRE BRICK



DEFENDANT'S
EXHIBIT
GS.2

Riley

WIT. - GS.2
DATE
S. LYSEK, RPTR.

1.536

Johns-Manville

JM

Asbestogard Adhesive

UNDEWRITERS
AS ROOF DECK COIN
RESISTANCE TO AIR IN
FOR USE IN COIN
CONTENTS NOT OVER
SEE UL CLASSIFIED

Rate of Application
ASBESTOGARD FEI
gal. of Asbestogard A
applied in a continu
surface.

This is the F
an
Comp
Const
Johns-Manville Sales C

CONTENTS: 5 GALLONS Prepared Ready for Use

JOHNS-MANVILLE: Asbestogard Adhesive

Johns-Manville

JM

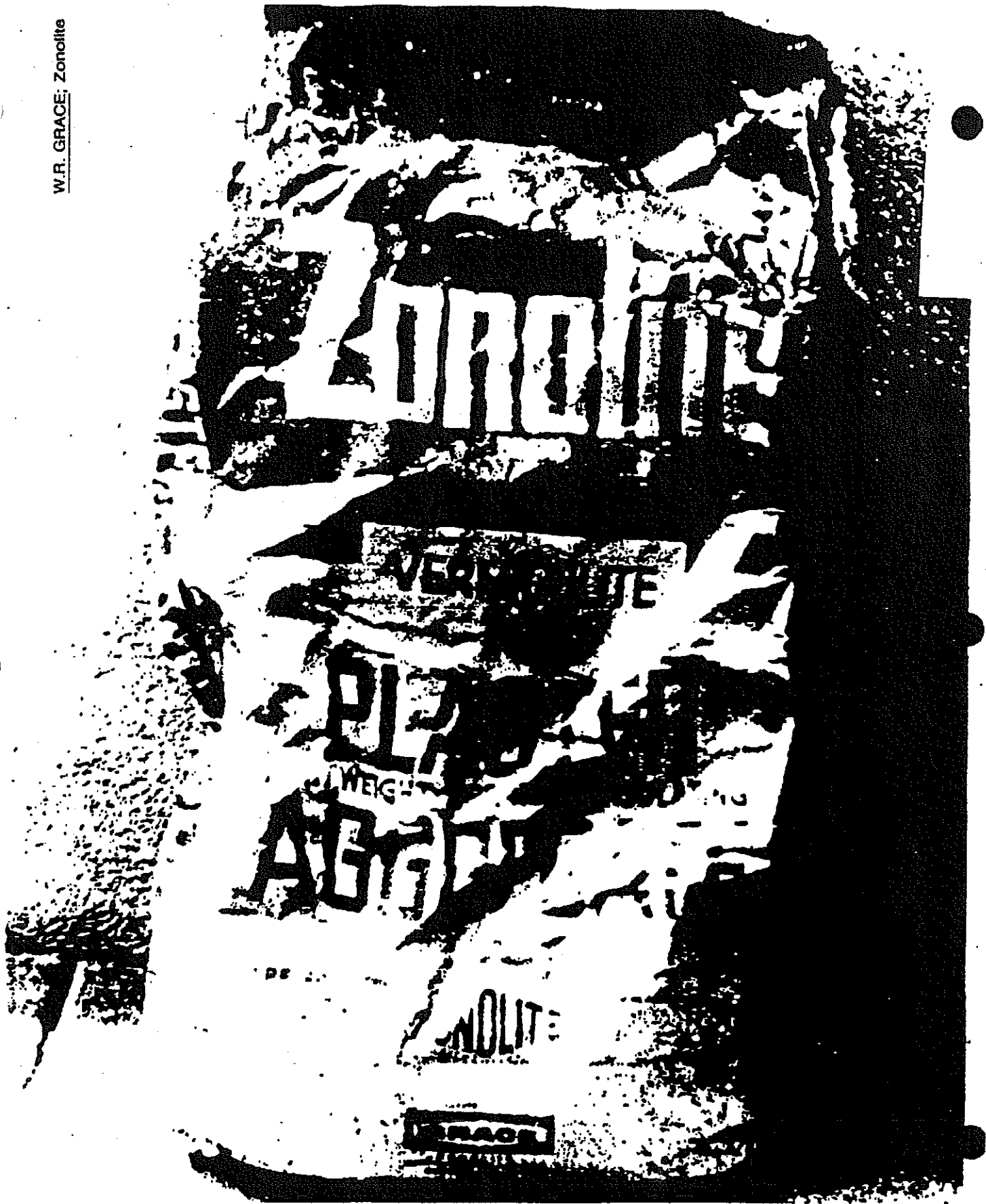
Asbestogard Adhesive

5 GALLONS

Prepared Ready for Use

1543

W.R. GRACE; Zonolite



2.103

7

1960
Arch

12 e
Na



**gypsum plasters
and lime**

finish plasters



base coat plasters



finish and masons' lime



acoustical plasters



NATIONAL GYPSUM COMPANY

Buffalo 2, New York



1955



2107

PFIZER

1950 Arch

TIGER



PFIZER; Kilnoise Acoustical Plaster; (Product Catalog)

KILNOISE

ORANGE
field

**ACOUSTICAL
PLASTER**

THE KELLEY ISLAND LINE & TRANSPORT CO., CLEVELAND 14, OHIO

2.109

10

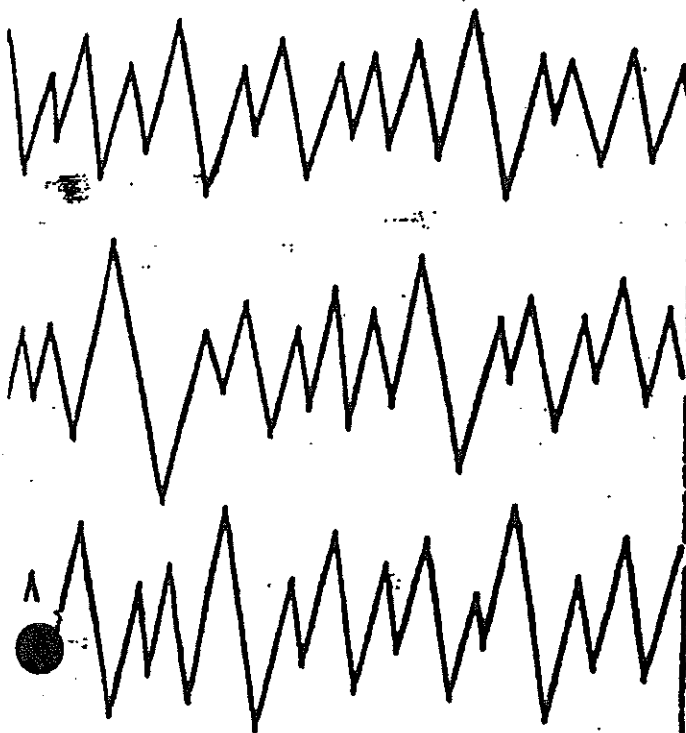
NEW

way to control sound

U.S. GYPSUM; Audicote

Audicote

ACOUSTICAL PLASTER



U.S. Pat. Off.

2.111

US Gypsum 1950
Arch

12b
4

UNITED STATES GYPSUM

BASECOAT PLASTERS

RED TOP* CEMENT PLASTER

DESCRIPTION

RED TOP Cement Plaster is a neat gypsum plaster requiring the addition of an aggregate and water on the job. It is the basecoat that receives the finish coat plaster.

Complies with ASTM Designation C28-40 for "Gypsum Neat Plaster" and Federal Specification SS-P-402, Type N.

FUNCTION AND UTILITY

RED TOP Cement Plaster is used for scratch (1st coat) and brown (2nd coat) wherever good plastering aggregate is available.

FIREPROOF—Made from gypsum rock, it is incombustible and will not transmit high temperatures until completely calcined; a slow process. In this respect, gypsum plaster is unique. See fire test data page 36, for authoritative fire ratings.

ADAPTABLE—RED TOP Cement Plaster bonds firmly with ROCKLATH* plaster base, metal lath, fiber insulation lath, wood lath, PYROBAR* gypsum partition tile, clay tile, porous brick and certain other approved plaster bases.

RED TOP Cement Plaster is the standard of excellence for receiving such finish coats as lime putty, Keene's Cement, gypsum trowel finish, gypsum float finish, ORIENTAL* Interior finish, gypsum acoustical plaster, etc. It is an excellent base to receive acoustical tile.

RED TOP Cement Plaster is plastic, permitting wide latitude in its use for plain or curved surfaces.

UNIFORM—RED TOP Cement Plaster is manufactured on a nation-wide basis within narrow limits of tolerance. Its "stabilized set" minimizes the hazards due to impure water or aggregate and job conditions. Its set is adjusted for seasonal conditions.

STRONG—When mixed with good sand according to specifications, RED TOP Cement Plaster has a compressive strength up to 1,000 lbs. per sq. in. (see test data, page 36). It is capable of withstanding normal wear and usage for the life of the building.



ECONOMICAL—RED TOP Cement Plaster is lowest in cost of the various types of gypsum basecoats because:

The neat plaster is low in cost and is mixed with economical aggregate which increases bulk and coverage.

RED TOP Cement Plaster is highly plastic, thus is easily and quickly applied by the mechanic.

Normal usage requires little or no maintenance.

LIMITATIONS OF USE

1. RED TOP Cement Plaster should have aggregate added strictly according to specifications. Use of too much aggregate drastically decreases its strength. Sand content is easily calculated. A No. 2 shovel full of damp sand weighs approximately 15 lbs. The light weight aggregates are generally shipped in 4 cu. ft. bags.
2. Under no conditions should RED TOP Cement Plaster be applied to concrete. Use KINIXRETE* Plaster, described on page 7.
3. RED TOP Cement Plaster should not be used where contact with excessive water or moisture is expected. In such instances, use portland cement-lime plaster.
4. RED TOP Cement Plaster is an interior basecoat plaster and should not be used on the exterior where exposed to the elements.
5. Because bituminous compounds do not provide an ideal base for gypsum plaster basecoats, plaster application on masonry walls and concrete that have been coated with these compounds is not recommended.

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

7 114

12



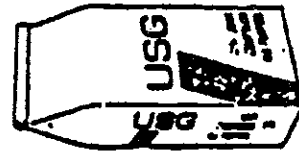
ster Free Ready-To-Use Joint Compound-Topping is a vinyl-based finishing material with uniform high quality and working consistency; also may be used as a first coat over metal corners, drywall trim and fasteners. Produces smoother finish with less shrinkage and sanding than Ready-To-Use All Purpose Compound. Makes an excellent texturing material.

USG Crater Free Ready-To-Use Joint Compound-All Purpose is a drying-type formulation widely used for embedding, finishing and texturing because of its uniform high quality. On-the-wall coat averages the same as, or less than, that of powder compounds. Also used with reinforcing tape for repairing cracks in interior plaster and masonry not subject to moisture.

USG Powder Joint Compounds

—the ultimate in materials that mix faster, apply easier

These non-cement powder compounds offer outstanding performance characteristics, including shorter mixing time and stable consistency. While they are not compatible with cement-type joint compounds, they may be used with Durabond Compounds and USG Crater Free Ready-To-Use Compounds.



USG Joint Compound-Taping is designed for embedding tape and for first fill coat on metal corner beads, drywall trim and fasteners; also used for patching plaster cracks. Offers outstanding bond and resistance to cracking.

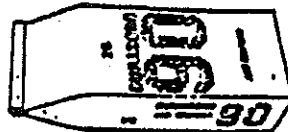
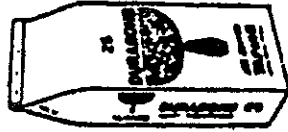
USG Joint Compound-Topping is a smooth-sanding material for second and third coats over taping compound. Produces excellent feathering and superior finishing results.

USG Joint Compound-All Purpose incorporates good taping and topping characteristics in a single product for use where finest results of the specialized compounds are not necessary. Also has good texturing properties.

DURABOND Joint Compounds
—the top selection with engineered performance

These hardening-type compounds provide faster finishing of drywall interiors even under slow drying conditions. Rapid hardening permits same-day joint finishing and usually next-day decoration. Low shrinkage and superior bond are outstanding features. All Durabond Compounds are excellent for laminating gypsum panels to gypsum panels, to sound deadening boards or to existing above-grade, clean concrete surfaces.

When used with Suetzrock SW Gypsum Panels, the system produces the strongest drywall joint ever developed. The exclusive eased-edge design of Suetzrock SW Panels helps compensate for framing irregularities, damaged panel edges and extremes of temperature and humidity that can cause ridging and beading.



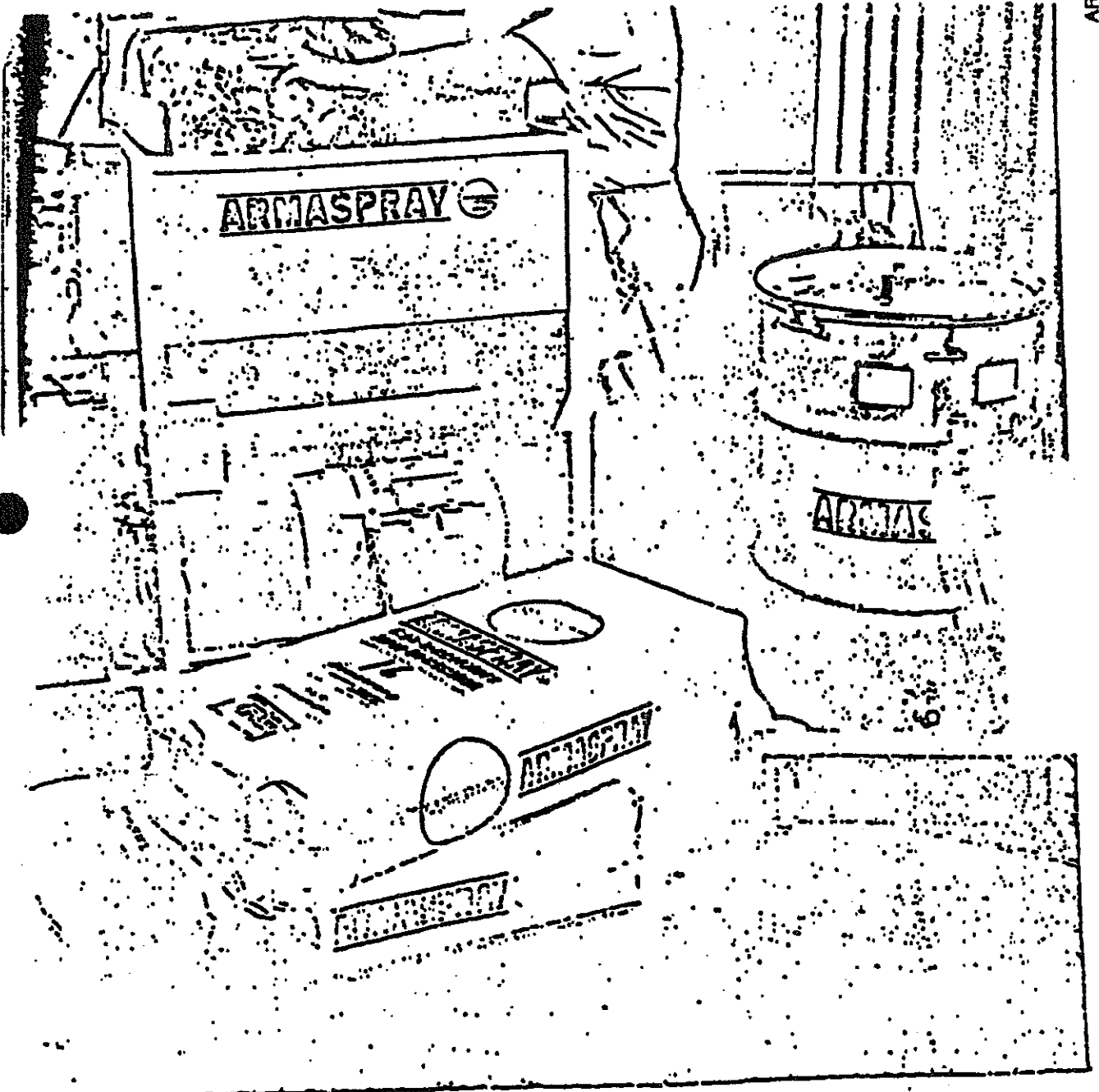
DURABOND Joint Compound-Taping is a hardening-type material for embedding tape, drywall fasteners and metal accessories. Also ideal for heavy fills because it chemically hardens in 3 to 4 hrs. Virtually unaffected by humidity.

DURABOND Joint Compound-All Purpose is a hardening-type material that can be used for all drywall joint treatment applications—taping, filling, patching and finishing—with the convenience of a single-package product. Offers satisfactory performance in all three stages of joint treatment with remarkable strength, bonding and humidity-resistance characteristics. Can be decorated with selected coatings while still damp. An exclusive feature among all joint compounds. A finish coat of Ready-To-Use Compound is not required.

DURABOND 90 Joint Compound is the required pre-fill material for Suetzrock SW Panels to smooth and strengthen joints between panels. Its 1-to 2-hr. hardening time also makes it an ideal alternate for Durabond Joint Compound-Taping in applications where faster finishing is desired. Also used extensively on the job for patching and touch-up work.

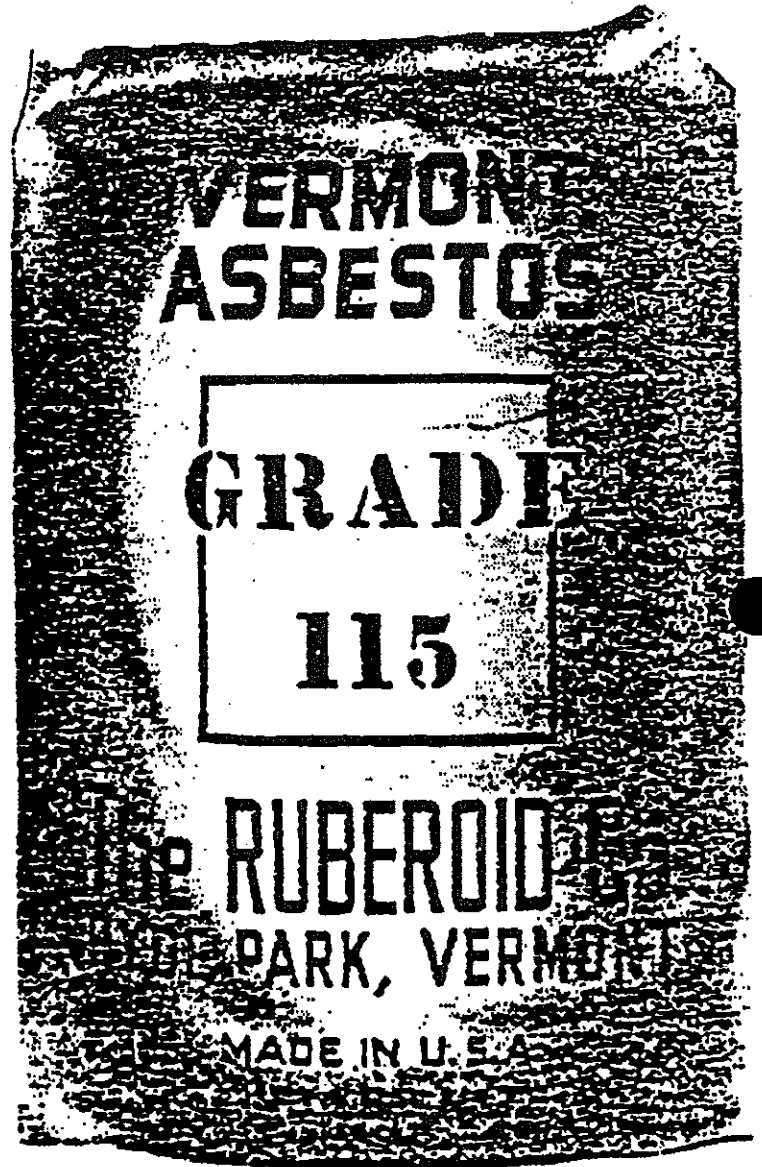
ARMSTRONG

ARMSTRONG: Armaspray

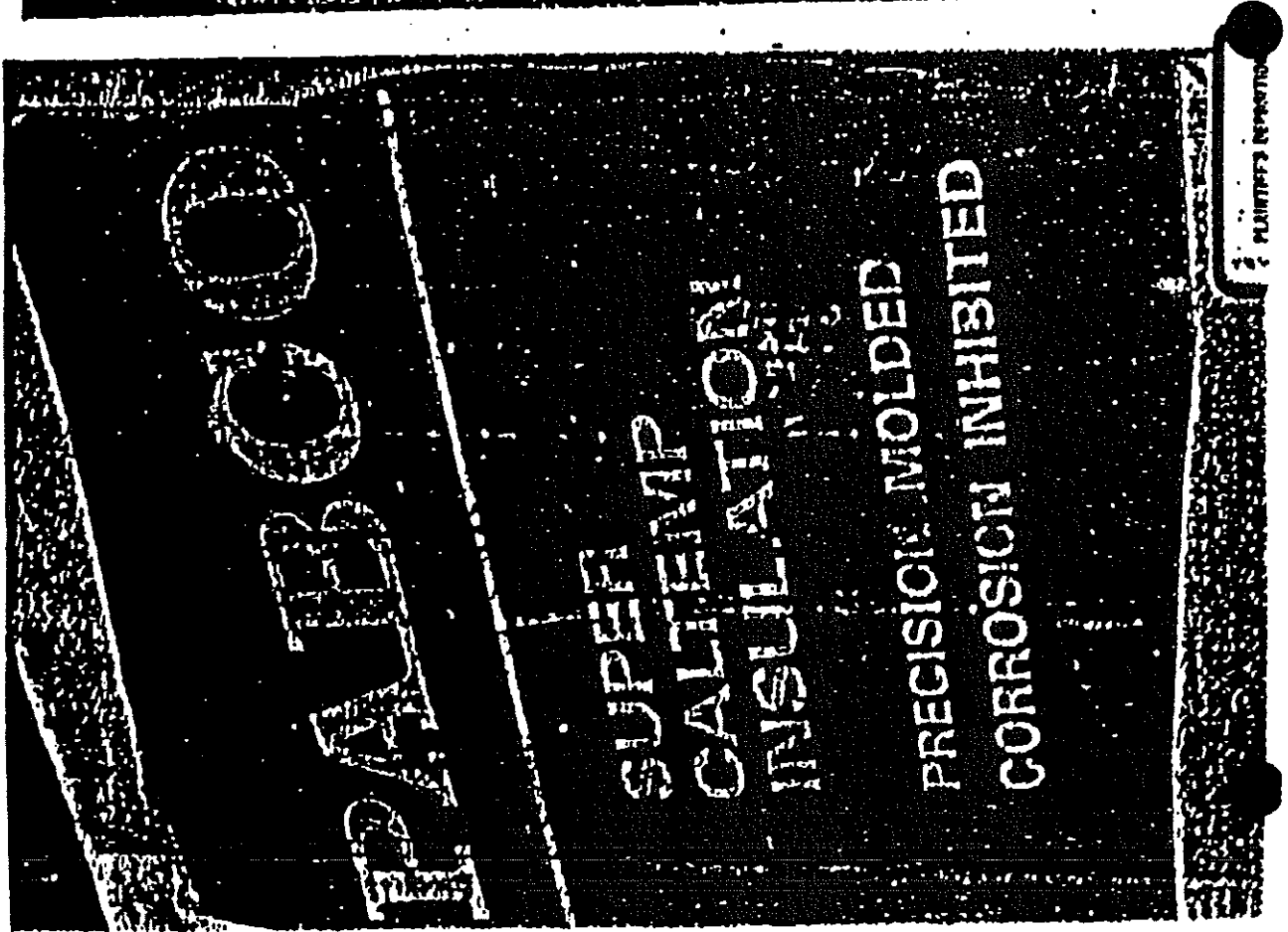
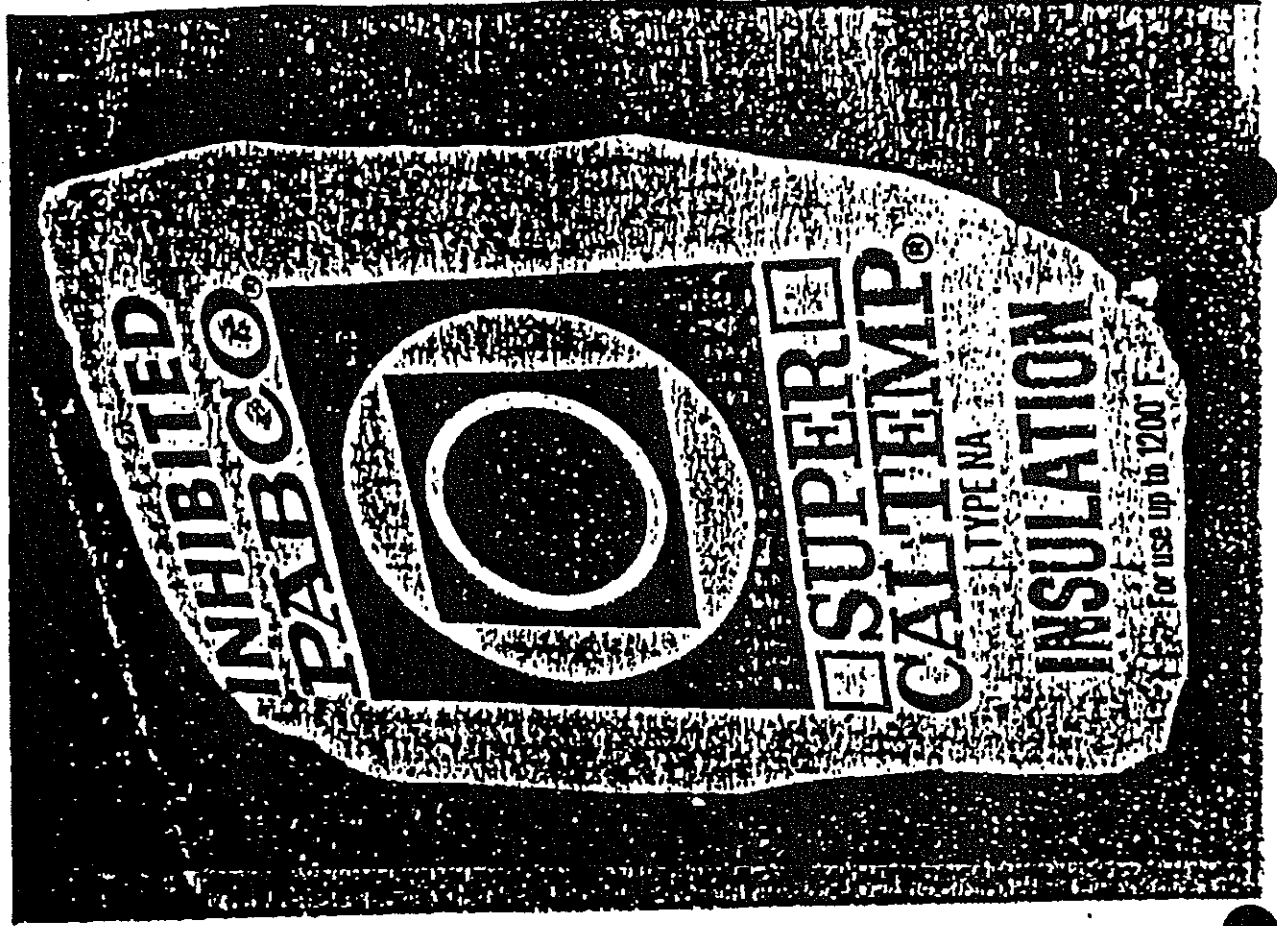


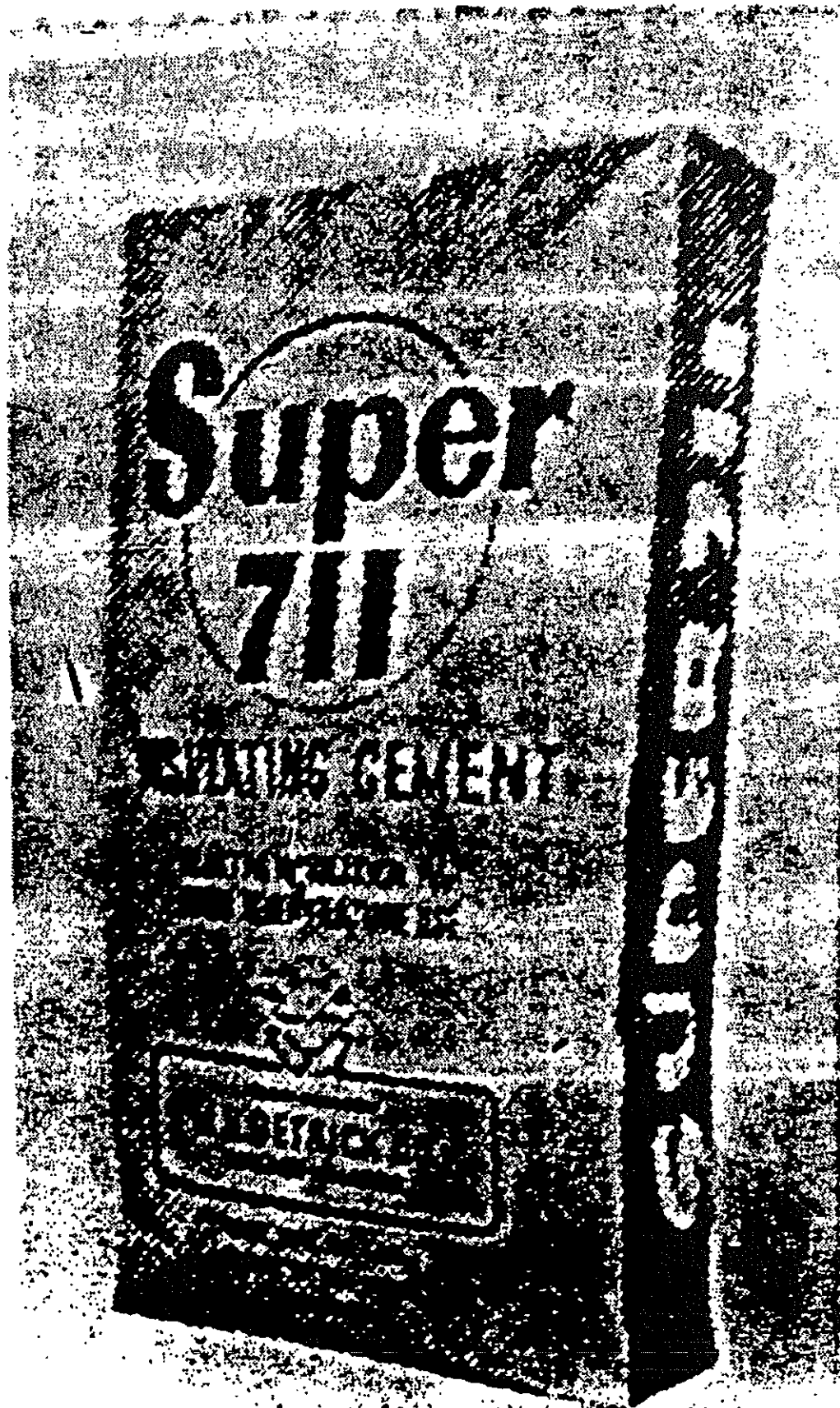
REC. NO. 65122

GAF/RUBEROID; Vermont Grade 115



1.533





1 510

RUBEROID

CALSILITE
INSULATING
CEMENT

*Efficient
insulation that
is as good as
any other cement
available
at 250°F.*

Net Weight 50 lbs.

RUBEROID Co.

1.531

(10)



RYDER INDUSTRIES; Thermokote

50-17.

1.558



HIGH TEMPERATURE CEMENTS



ALL
MATERIALS
*Shown
on this
PAGE..*

ARE PACKED IN
WATERPROOF
Bags

LACLEDE CHROME MORTAR (Dry) AIR-SETTING

Laclede Chrome Mortar bonds firebrick with a thin, dense, hard joint which prevents erosion and slag penetration, allowing the brick to serve in its entirety. It is especially useful for coating surfaces subjected to chemical and slag erosion. Since it is a neutral refractory, it is not affected by slag, fluxes, dust laden gases, low fusion ash, erosion, or flame abrasion.

Air-setting. 500 pounds to lay 1,000 brick. Weight 150 pounds per cubic foot. Neutral. Packed in 125 pound moisture-proof bags, 125 pound drums.

FURNOSET (Dry) HEAT-SETTING

Laclede Furnoset is a first quality, high temperature, heat-setting, bonding mortar. It is recommended for bonding all grades of firebrick in laying firebrick walls in furnaces where joints must be equal to brick. No chemicals or compounds are used to accelerate setting. The fireclay materials are scientifically combined so that the mortar works easily and forms an air-tight and gas-tight structure. Increasing temperatures cause Furnoset to become stronger. Heatsetting. 400 pounds to lay 1,000 brick. Weight 100 pounds per cubic foot. Packed in 100 pound moisture-proof bags.

MORTARMIX (Dry) HEAT-SETTING

Mortarmix is a first quality prepared fireclay mortar composed of raw and calcined refractory clays of the highest quality, scientifically balanced to produce a strong bond with minimum shrinkage. Mortarmix is used for laying the highest grade of firebrick and is so finely ground that the brick can be dipped if desired. It is not a high temperature cement, but rather a quality fireclay mortar that will not flux firebrick nor fuse and run from the joints. It is easy working and economical.

Heat-setting. 400 pounds to lay 1,000 brick. Weight 90 pounds per cubic foot. Packed in 100 pound moisture-proof bags.

SPECIAL SILICA MORTAR No. 152 (Dry) HEAT-SETTING

Laclede Special Silica Mortar No. 152 is used in the glass industry for laying up silica brick crowns, breastwalls, endwalls, shapes, or wherever silica brick is used in the glass furnace. Masons like its extremely smooth working characteristics. Because it does not dry out quickly on application to porous silica brick, thinner joints are possible with resultant tighter brickwork and saving of mortar. After "heat-up" it forms a much stronger bond than ordinary silica cement. It may also be used as a wash when crowns are laid dry.

Special Silica Mortar No. 152 is heat setting. Approximately 400 lbs. is required to lay 1,000 brick. It weighs 90 pounds per cubic foot and is packed in 100 pound moisture proof bags.

H.K. PORTER (Laclede Christy); Bonding Mortars; (Product Catalog)



KAISER REFRACTORIES: Vermiculite Vee-Block Mix

4.721

Asbesto-Sponge Felted Pipe Insulation

For temperatures to 700 F

Asbesto-Sponge[®] Felted Pipe Insulation is a most efficient commercial heat insulation for pipes conveying steam or fluids with temperatures up to 700 F.

It is especially designed to withstand, permanently and without disintegration, the high temperatures, as well as vibration and wear and tear, encountered in modern engineering practice.

The insulation is made of felts composed of asbestos fiber so combined to give a spongy laminated material. It is built up to the required thickness in laminations of approximately forty per inch of thickness, cemented together at intervals. For pipe insulation, these felts are wound one over the other until the desired thickness is obtained, the cylinder then being slit lengthwise to permit application.

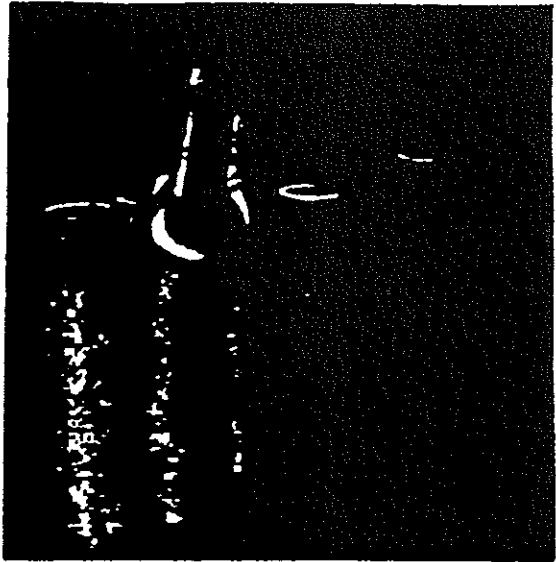
The principal advantage of Asbesto-Sponge Felted Pipe Insulation over other types lies in its excellent thermal characteristics and in the permanency with which it retains these characteristics in service. Soaking this insulating material in water and then drying it out again has practically no effect upon its structure or insulating value.

Its high insulating value is due to its construction, which contains many surface resistances greatly reducing the transfer of heat through the material.

Asbesto-Sponge Felted, being a fabricated insulation, has a higher cost than some other types of insulating material. However, the cost of pipe insulation for any job is but a small part of the installed first cost. Thus for installations where the pipe insulation must withstand rough service or mechanical abuse and still maintain its high insulating value, the increased service life provided by Asbesto-Sponge Felted very often indicates it to have the lowest cost per year.

The felted nature of Asbesto-Sponge Felted makes it flexible to a considerable extent, and the insulation before and after application will stand much abuse without becoming damaged. So constructed as to eliminate breakage in shipment, handling and after applying, it can be removed and replaced many times.

Asbesto-Sponge Felted Pipe Insulation is furnished in 3-foot sections, in single-layer thicknesses (unless otherwise specified) from 1" to 2½", to accurately fit any commercial size pipe. Thicknesses greater than



2½" are normally furnished in double-layer construction. The insulation is finished with a canvas jacket and furnished with lacquered metal bands for holding in place.

Being slit on but one side only, for pipe sizes 4" and larger, the heat leakage through joints is reduced to a minimum, and application is facilitated.

Asbesto-Sponge Felted can also be supplied in sections to fit straight runs of copper pipe or tubing of outside diameters from ½" to 6".

Asbesto-Sponge Felted is also furnished in sheet or block form in a number of convenient sizes as described in another data sheet.

Weatherproof Asbestos Jacket

Asbesto-Sponge Felted Pipe Insulation can be furnished with an integral weatherproof asbestos jacket attached at the factory.† This jacket is supplied with a 4" side-lap and with strips of felt, 7" wide, for a double circumferential wrap at the ends. The jacket is slit so that the pipe insulation can be applied in the regular manner. On horizontal pipe, the lap is turned downward to shed water. On vertical pipe, the lap should be sealed with Leptite (a J-M asphaltic cement). The side-laps of circumferential strips are made on the

[®] Reg. U. S. Pat. Off.

† Called "True Pipe Covering" in railroad work.

Asbestos Sponge Felt Insulation

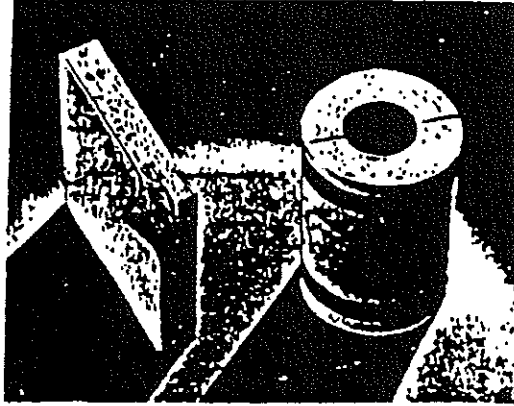
(Temperature Limit 700°)

Where high insulation efficiency and exceptional durability and toughness are required, asbestos sponge felt fills all requirements. This material consists of laminated felts, cemented together, the number of felts ranging from 37 to 14 per inch. The felts themselves are made of pure asbestos fibers and minute particles of sponge which produce a pebbly effect in the felt. This effect produces the necessary separation of asbestos surfaces to provide a high insulation value.

The extreme toughness of this product makes it ideal for use where there is vibration or shock, or where any sort of rough usage or severe moisture or water conditions may occur. It has been a standard in railroad and in underground work for many years.

A certain amount of flexibility is obtained in sheets and blocks by running the adhesive securing the lamination lengthwise so that application to curved surfaces is possible. If absolute rigidity is desired in both directions, crosswise joints of adhesive may be specified.

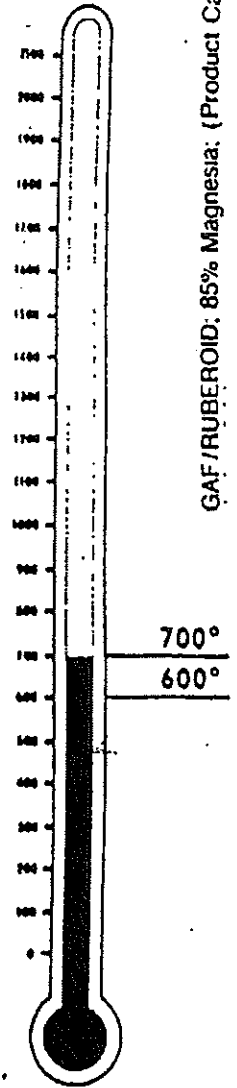
The covering is furnished in 3 ft. lengths, 1" to 3" thick for any commercial pipe size. Three inch thickness is furnished in double layer construction unless one layer is specified. Sheets or blocks are furnished 36" long, 1/2" to 4" thick, and 6, 12, 18, 24 and 36" wide.



Recommended Thicknesses

Steam Pressure or Condition	Temperature	Thicknesses of Insulation		
		Flat Surfaces and Pipes Larger Than 4"	Pipes 2" to 4"	Pipes Smaller Than 2"
Hot Water	212 to 266° F.	1"	1"	1"
0 to 25 lbs.	212 to 266° F.	1"	1"	1"
25 to 100 lbs.	267 to 337° F.	1 1/4"	1"	1"
100 to 200 lbs.	338 to 387° F.	2"	1 1/2"	1"
Low Superheat	388 to 499° F.	2 1/4"	2"	1 1/2"
Superheat	500 to 599° F.	3"	2 1/2"	2"
High Superheat	600 to 700° F.	3 1/2"	3"	2 1/2"

For outside purpose insulation, thicknesses should be 1/2" greater than those shown above.



GAF/RUBER-OID: 85% Magnesia: (Product Catalog)

85% Magnesia Insulations

(Temperature Limit 600°)

For many years 85% Magnesia has been a standard in its field. Light in weight, highly efficient, chemically inert and stable, readily applied, 85% Magnesia is used for a wide range of applications.

Ruberoid 85% Magnesia is a mixture of pure basic magnesium carbonate (4 Mg Co., Mg(OH)₂, 5H₂O) and selected asbestos fibers. The magnesia, through an intricate crystalline structure of microscopic dimensions, holds a vast amount of air thoroughly confined, thereby providing a high degree of insulation value. Carefully chosen asbestos fibers are finely dispersed throughout the mass of magnesia to supply mechanical strength.

Because of its inert nature, magnesia will give highly satisfactory service over many years. Wet-



ting will do no harm since upon drying the material will resume its original form. In fact, waste or scrap material may be ground up and mixed with water for use as a plastic insulation. (See Magnesia Cement Page 11.)

Pipe Covering is made in 3 ft. lengths, and in standard, 1/2", 1", 2 1/2", double standard and 3" (double layer) thicknesses. For small pipe sizes it is furnished in sectional form with canvas jacket and brass torquered bands.

1.105



Asbestos-Cement Boards

ETERNIT ASBESTOS-CEMENT FLAT SHEETS No. 35

Eternit No. 35 Flat Sheets are made of Portland cement and asbestos fibres combined under great pressure. It will withstand temperatures to 700° F. and is approved by the National Board of Fire Underwriters. It will also withstand severe temperature changes,—will not rust or rot, and is impervious to chemicals and acids.

This material is easily applied and can be fastened with nails, screws or bolts. It can be decorated or painted as may be desired.

Eternit No. 35 Asbestos-Cement Flat Sheets are recommended for use wherever a fireproof, heat-resisting material is required. Some of its most common uses are for: fire partitions and ceilings, outer casings over insulated boiler or furnace walls, oil switch and transformer compartments, panel board liners, lightning arrester boxes, bus barriers, protection from magnetic saw-outs on the street and railway cars.

Furnished in standard size sheets—36" x 48", 42" x 48", 42" x 96", 48" x 48", 48" x 96".

No. 60 FIREPROOF INSULATING BOARD

Combining a form of expanded mica, an excellent structural heat insulating material capable

of withstanding very high temperatures, with asbestos and Portland cements, physical properties are given to No. 60 Fireproof Insulating Board making it fireproof, structurally strong, low in thermal conductivity, highly resistant to moisture and light in weight.

It is golden brown in its natural color, but can be painted in any finish that may be desired. It is made in two grades, pressed and unpressed, each type being sufficiently strong for general fireproofing construction, yet easily cut, sawed and nailed. It will hold screw threads as well as wood.

It may be used for temperatures to 1200° and when employed within this range will not deteriorate, shrink or undergo any change in physical characteristics.

No. 60 Fireproof Insulating Board can be used in general fireproofing and insulation of walls, ceilings, floors, basements, cellars, around furnaces, in railroad and street cars, bays, road building, asphalt trucks, also for air ducts, fireproof doors, radiator covers and shields. It is also used on electrical work such as in electric sandwich toasters, waffle irons, irons, furnaces, ovens, hot plates; also as arc shields for busbars, rheostats, switch bases, etc.

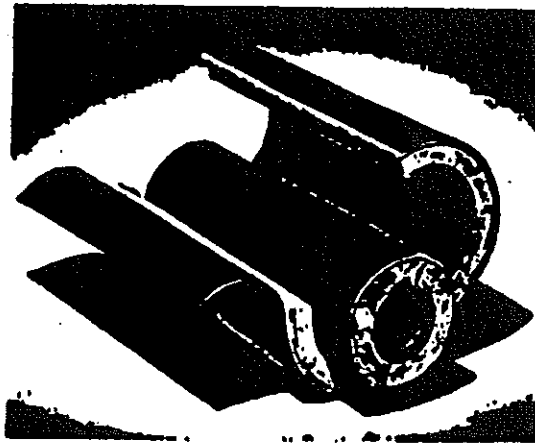
Furnished in standard size sheets—42" x 48", 42" x 96", 48" x 48" and 48" x 96". Special shapes and sizes can be furnished with additional charges for cutting, punching, drilling, shaping, etc. Greater thicknesses than 3/4" pressed and 1 1/4" unpressed obtained by adhering several plys together.

Coatings and Weatherproofing Materials

WEATHERPROOF JACKETS

Where pipe covering is exposed to the weather several standard forms of jackets are available. Either one ply 30 lb. asphalt saturated asbestos felt or one ply 45 lb. asphalt saturated rag felt is employed, and furnished separate or attached, as specified. Accessories furnished include 6" wide strips for end laps, staples, copper wire and lap cement.

Jackets are made of a size sufficient to provide 4" side laps. When applying, the laps should be turned down to shed water, and sealed with RUBER-OID Lap Cement. The 6" wide strips should be applied over end joints in a seal of Lap Cement, and the side lap turned down on the opposite side from the jacket lap. The wire furnished should be applied over the jackets on not more than 4" centers.



WEATHERPROOF JACKET

COATINGS
and
WEATHERPROOFINGS

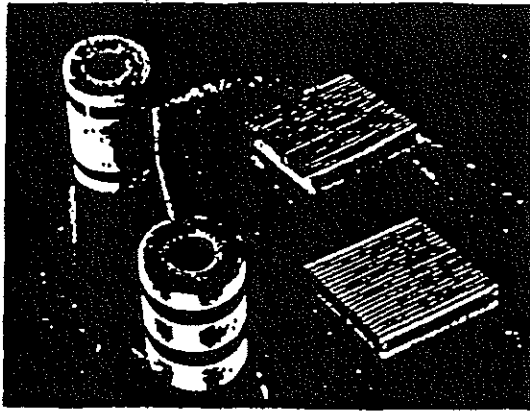
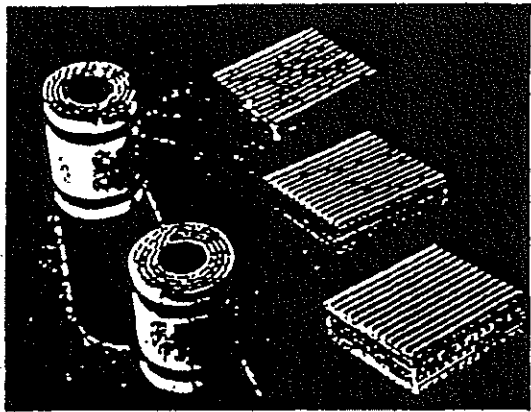
S.F.F

GAF/RUBEROID: Air Cell; (Product Catalog)

R RUBEROID INSULATIONS R

Air Cell Products

(Temperature Limit 300°)



RUBEROID AIR CELL

Air Cell products—pipe covering, jackets, sheets and corrugated paper—are designed for application over low pressure steam, hot water, and warm air pipes, ducts and other equipment. They are made of pure asbestos felts, each layer consisting of one corrugated and one flat felt, cemented together. In all Ruberoid Air Cells "Roman-arch" corrugations are employed, which together with the manufacturing methods used result in a stronger and more uniform product than would be otherwise produced. The pipe covering is concentric, and "offsets" in joints of both pipe covering and sheets are eliminated.

The paper employed is a pure asbestos product, with composition and processing such that shrinkage is reduced to a minimum.

Pipe covering is furnished either with a canvas jacket and 3/4" brass lacquered bands or with a "Pyroxylin" finish and black japanned bands. The "Pyroxylin" finish results in a glossy pure white surface which is dust, water, oil and grease proof. The "Pyroxylin" finish can be easily cleaned and is ideal for exposed work where appearance is a factor.

Sheets and blocks are made with alternating layers crossed so that corrugations run in both directions, giving exceptional strength and rigidity and resulting in increased efficiency. They can be furnished with smooth surface on both sides or smooth surface on one side and corrugated surface on the other.

Pipe covering sections are 3 ft. long, 1/2" (3 ply) and 1" (4 ply) thick for all standard pipe sizes. Sheets and blocks are 36" long, 6, 12, 18, 24, and 36" wide. Standard thicknesses are 2, 4 and 4 ply. Other thicknesses and sizes can be made

RUBEROID WATCOCELL

Where somewhat greater insulation efficiency or greater ruggedness is required, WatcoCell should be employed. This is made in the same manner as Air Cell but with 6 or 8 corrugations per inch, as specified.

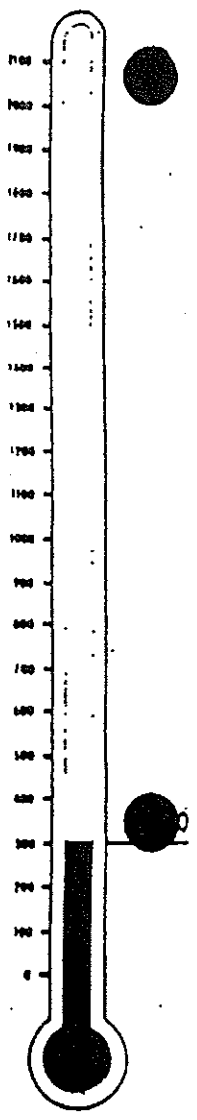
Sizes of both pipe covering and sheets, also finishes, are as described for the Air Cell.

RANGE BOILER JACKETS

Ruberoid Range Boiler Jackets are indispensable for range boilers or hot water tanks. The substantial savings in fuel costs quickly pay off the investment. More important in many cases is the fact that through the use of these jackets water can be kept hot for long periods of time, where on a bare tank there would be a rapid loss of heat and a falling off in temperature. The retention of heat makes water available at a high temperature whenever desired, and also makes water available in greater volume because the temperature is always high enough to permit mixing some cold water with it.

These jackets are made of built-up layers of corrugated and flat asbestos paper to accurately fit the size of the boiler on which they are to be used. They are flexible and can be applied without any previous experience and with a minimum expense. The outside jacket is attractive, which permits the use of this insulation in any part of the home.

Packed in cartons with complete accessories for application, which includes asbestos cement for the insulation of the head and extra wide black bands for holding these jackets on the boiler.



7

1.608

Zonolite

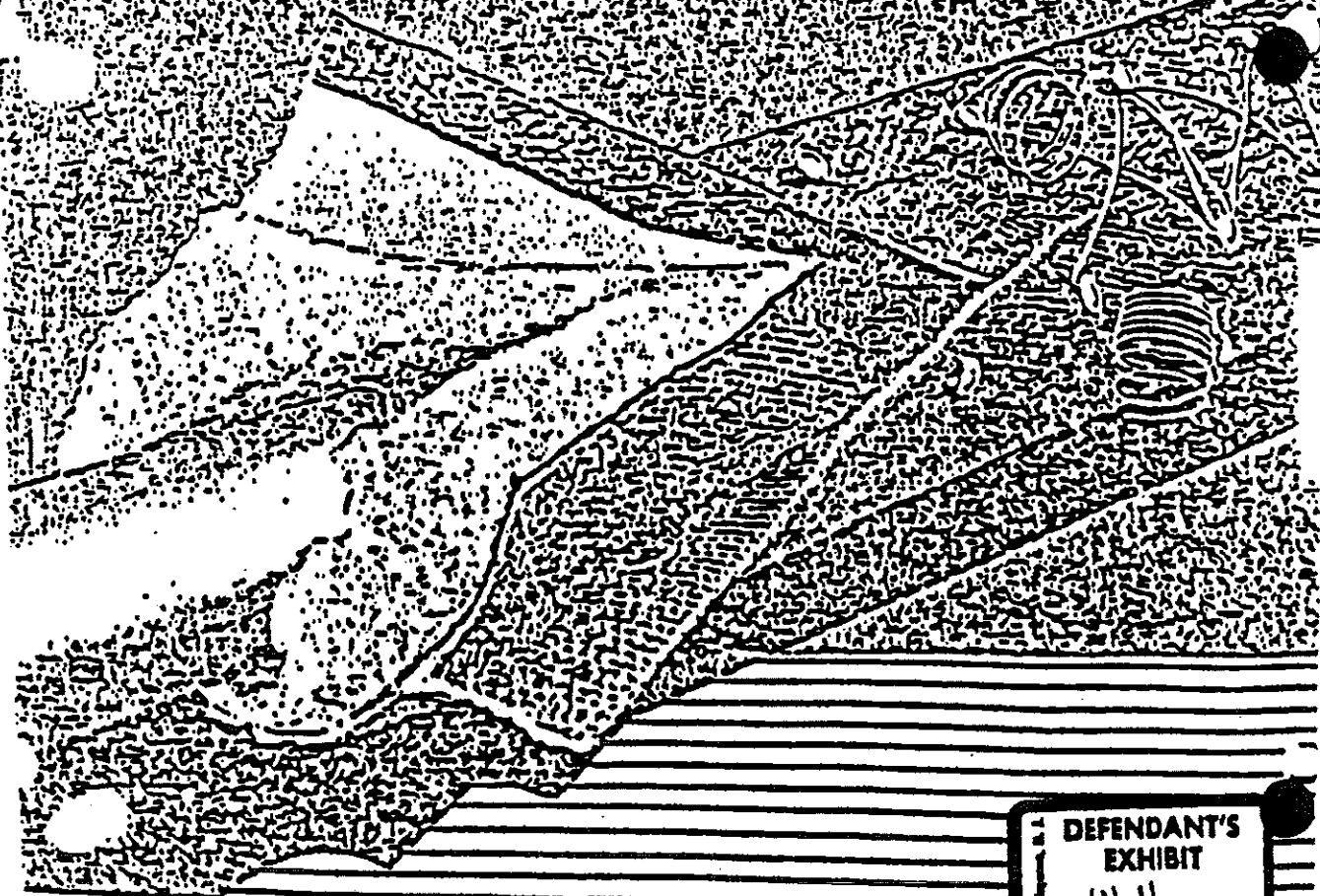
Monokote 5 Fireproofing

GRACE

UNARCO

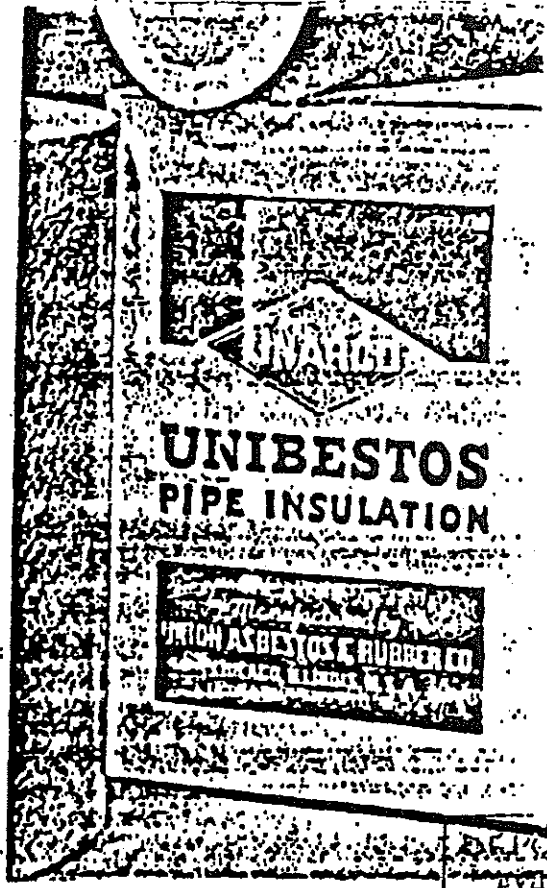
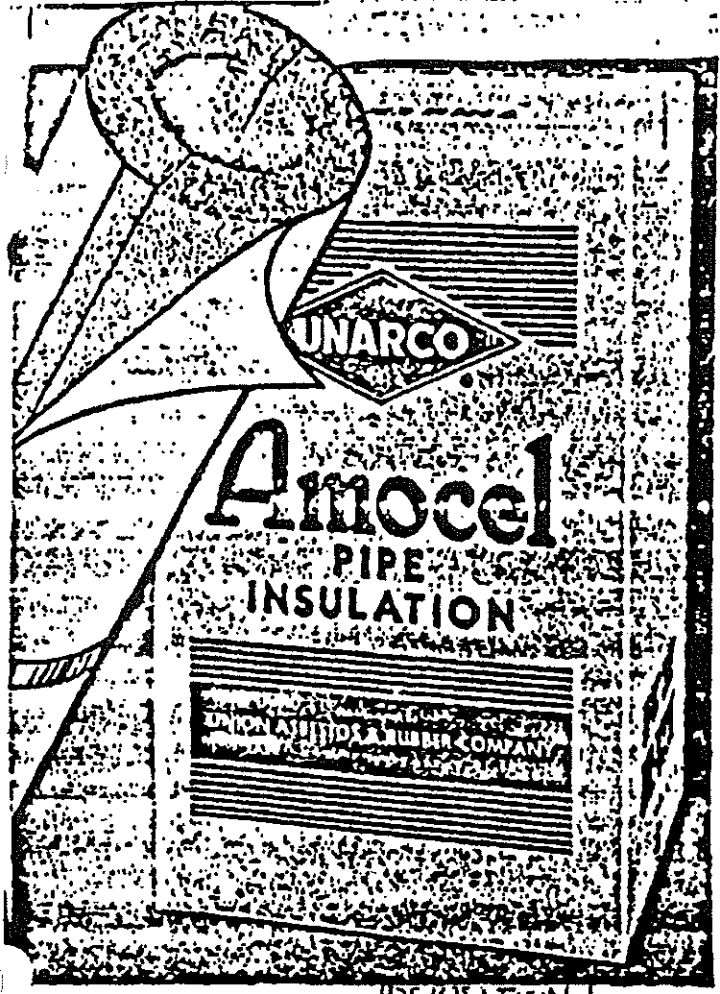
WOVENSTONE

Large on-Trend Paper Decorations



DEFENDANT'S
EXHIBIT
1111

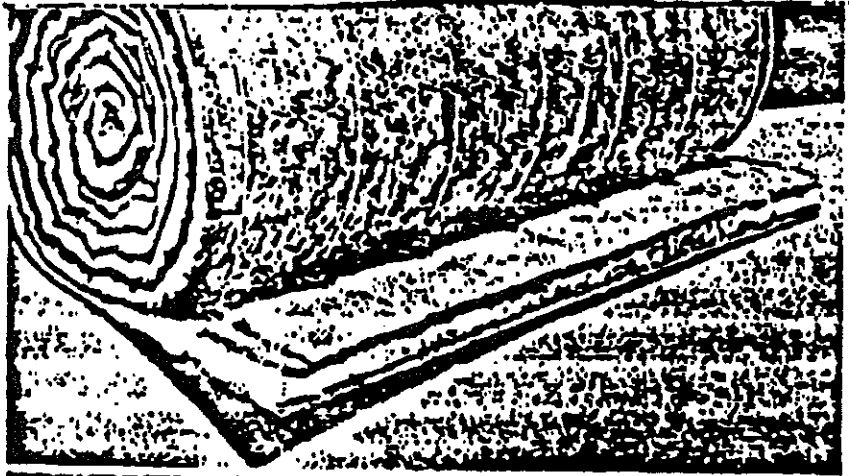
1.406



DEPOSITION
EXHIBIT
U. 2

DEPOSITION
EXHIBIT
U. 2

Ex. No. 41



For use behind
fireproof metal or
expanding metal or
other non-combustible
material.

UNARCO SOUND ABSORBING Blankets

UN - 4

DEPOSITION
EXHIBIT

1.405

Pre-Shrunk Asbestocel Pipe Insulation

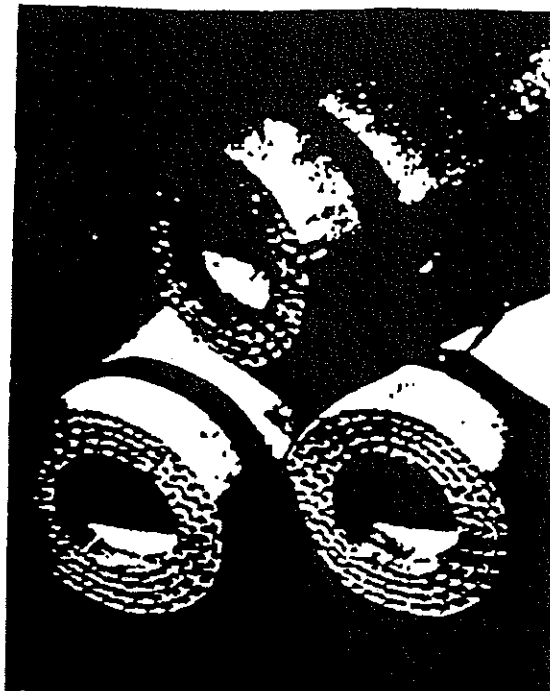
For temperatures to 300 F

J-M Pre-Shrunk Asbestocel is a cellular type of insulation, made up of alternate layers of plain and corrugated asbestos felt, for use on pipes conveying low pressure steam and hot water.

This material affords assurance against objectionable shrinkage, the major shortcoming of the old style cellular pipe insulation. The old style material, made of ordinary asbestos paper, readily absorbs moisture ("breathes") while in stock or during handling and consequently expands. After the insulation is applied to a pipe, the heat of the line dries it out, causing the material to shrink and the sections to pull apart at the joints.

Pre-Shrunk Asbestocel, on the other hand, is made of specially-treated, moisture-resistant asbestos paper which prevents "breathing" and thus removes the cause of objectionable shrinkage cracks.

Pre-Shrunk Asbestocel, moreover, is fabricated with an improved type of corrugation which affords greater strength and a more uniform appearance. Because of up-to-date manufacturing facilities, all these advantages are available at no extra cost.



JOHNS-MANVILLE: Asbestocel; (Product Catalog)

Finishes

White Finish: A glazed white finish, applied directly to the asbestos felt, which offers the following outstanding advantages: A pipe insulation bearing the Underwriters' Laboratories seal of approval as the finish will not carry flames; will not discolor from dampness or contact with wet insulating cement; can be cleaned with a damp cloth; can be painted without preliminary sizing. This pipe covering saves one-third

in application time, compared to regular canvas-covered type, as no pasting is required—a high-speed insulation which slips easily over the pipe and clinches on tight with simple, quick-fastening staples.

Asbestos-covered high-speed finish: An attractive asbestos paper finish which, like the White Finish type, saves one-third in application time.

Regular canvas-covered: A standard finish used for many years in cellular pipe coverings.

Number of feet and sections and approximate gross weight per standard carton

Nominal Pipe Size, Inches	2-Ply			3-Ply			4-Ply		
	Lin ft of Insulation	No. of 1-ft Sections	Weight, lb Canvas Cover	Lin ft of Insulation	No. of 1-ft Sections	Weight, lb Canvas Cover	Lin ft of Insulation	No. of 1-ft Sections	Weight, lb Canvas Cover
1/4	180	60	62	130	40	51	84	28	47
1/2	150	50	55	108	36	47	72	24	44
3/4	120	40	51	84	28	43	63	21	42
1 1/4	90	30	45	72	24	38	51	17	40
1 1/2	84	28	42	66	20	36	45	15	38
2	60	20	38	45	15	32	36	12	34
2 1/4	45	15	31	36	12	31	30	10	37
3	36	12	30	27	9	28	21	7	32
3 1/4	34	8	24	21	7	25	18	6	31
4	33	11	30	27	9	32	21	7	31
4 1/4	24	8	32	21	7	32	18	6	30
5	21	7	35	18	6	35	15	5	32
6	18	6	38	15	5	34	12	4	35

PRE-SHRUNK ASBESTOCEL PIPE INSULATION

IN-344

Printed in U.S.A. (REV-6-57)

1609

30