Johns-Manville

22 East 40th Street - New York, N.Y. 10016

Sales Offices in Principal Cities

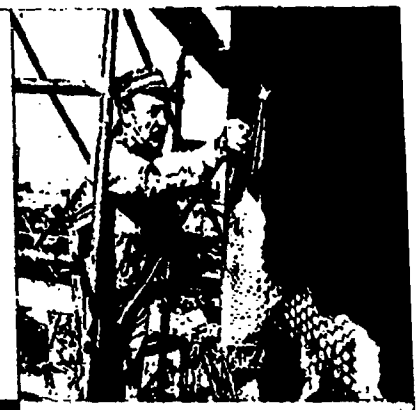
531689

IAC-49A

Litho in U.S.A.

ON TANKS AND VESSELS

GUARD INSULATED SURFACES AGAINST WEATHER OR WATER VAPOR WITH—

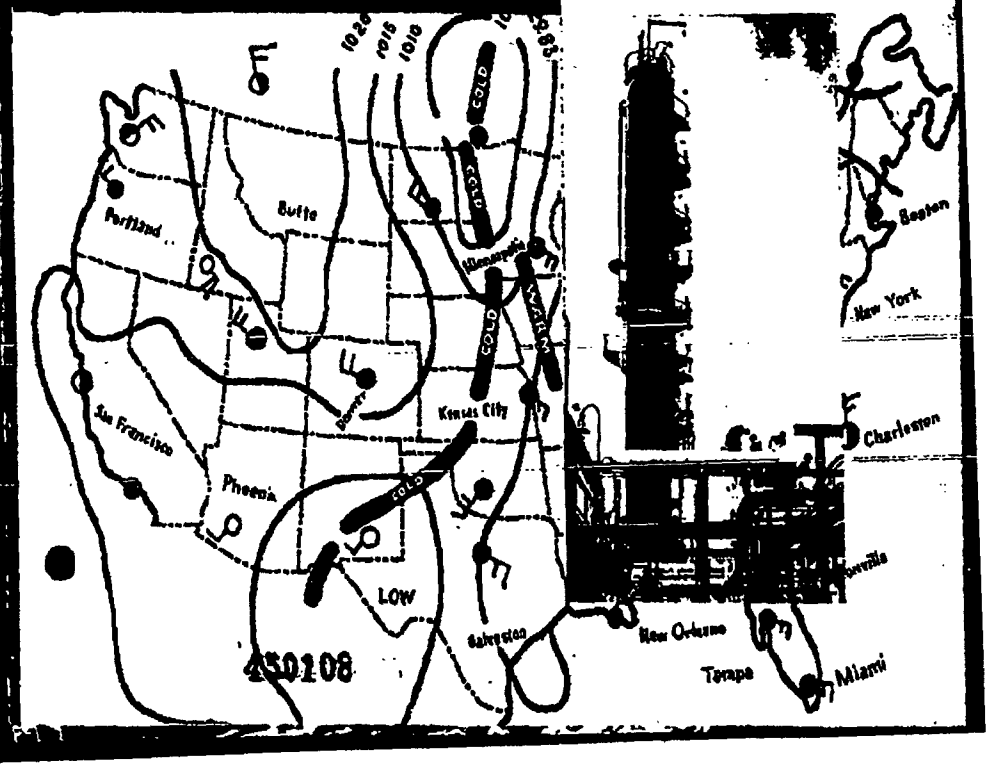


Johns-Manville

INSULKOTE

PROTECTIVE COATINGS

JM



PLAINTIFF'S
EXHIBIT
JM-2304

Protect INSULATED TANKS AND VESSELS WITH...

Johns-Manville INSULKOTE®



- Insures lasting insulation efficiency
- Helps prevent corrosion of underlying metal
- Safeguards insulation and equipment investment

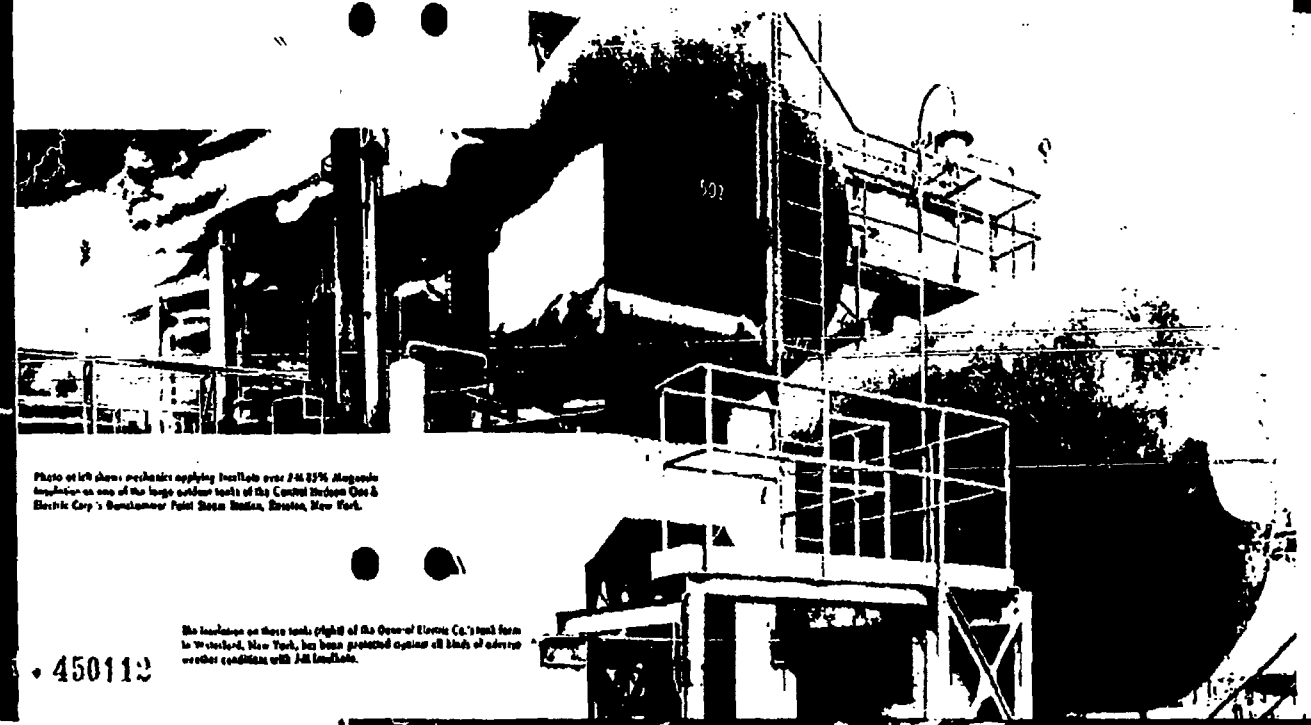


Photo at left shows mechanics applying Insulkote over J-M 85% Magnesia Insulation on one of the large outdoor tanks of the Central Hudson Gas & Electric Corp.'s Danskammer Point Steam Station, Roseton, New York.

The insulation on these tanks (right) of the General Electric Co.'s tank farm in Waterford, New York, has been protected against all kinds of adverse weather conditions with J-M Insulkote.

450112

IAC-49A

"MAXIMUM PROTECTION AT LOWEST APPLIED COST"

DURABLE—J-M Insulkotes are compounded of selected and processed bitumens, asbestos fiber and mineral fillers. These formulations were chosen after careful development and testing to give maximum protection at lowest applied cost to insulated tanks, breechings, piping and other process equipment.

Years of service in the field have shown that Insulkote resists acid or alkaline atmospheres and will stand up under the most adverse weather conditions. Its composition minimizes surface cracking and crazing under sudden temperature changes.

KEEPS OUT WATER—When insulation is saturated with water it loses its insulating value because water has a relatively high thermal conductivity. Also, water contributes to the rusting of metal surfaces. J-M Insulkote effectively seals out water ... preserves maximum insulation efficiency ... helps prevent rusting and corrosion of expensive equipment.

Some service conditions, notably those in which high temperatures prevail, require a coating that keeps out water but which will permit the passage of water vapor. Other service conditions require a water vapor seal. There is a J-M Insulkote (see page 5) especially designed for each condition.

EASILY APPLIED—Insulkote is furnished ready-mixed in two consistencies to facilitate quick, easy trowel or spray application. A jet-black material, it will not fade after it is applied—future patches will not contrast with the weathered coating. If desired Insulkote may be readily painted by first applying a sealing coat of aluminum paint or equivalent, followed by a finish coat of lead and oil paint.



APPLICATION SPECIFICATIONS

INSULKOTE ET—On asbestos cement no primer is required, but hexagonal wire mesh reinforcement should be used. Coating should be troweled on to an approximate thickness of ¼", and care should be taken to see that it is forced through the mesh so as to make a good bend with the cement. The mesh should not be exposed to the weather at any point.

On mineral fiber insulations, Insulkote Primer E should be applied, and Insulkote ET troweled on while the primer is still tacky. Wire mesh reinforcement is not required except where movement or vibration may occur.

INSULKOTE ST—When applied on asbestos cement no primer is required, but hexagonal wire mesh reinforcement should be used. Troweling should be done firmly to make sure the coating is thoroughly forced through the mesh. Insulkote ST should not be applied in thicknesses greater than ⅛". Application to a greater thickness may cause slumping while there is still solvent in the coating.

On mineral-fiber insulations, Insulkote Primer S should be applied prior to application of Insulkote ST. Wire mesh reinforcement is not required except where movement or vibration may occur.

INSULKOTE SG—On a... is required, but wire mesh rei... except under certain conditi... able to substitute a glass fa... latter case, a coating of Insu... 1/16" thick, shall be sprayed... ered, and the glass fabric r... coating. A second coat of In... sprayed on to give a total ... mately ¼".

When used as metal prot... reinforcement is required. Me... at time of application.

When used on mineral fi... Insulkote Primer S should be... ing the Insulkote SG.

INSULKOTE SGC OR E... furnished in consistencies su... trowel application. In either ... the coating is to be applied m... build up a thickness of ¼" by ... should be applied in two equal...

450110

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- Helps prevent corrosion of underlying metal
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The use of modern spray equipment will, under certain conditions, materially speed the application of Insulkote.

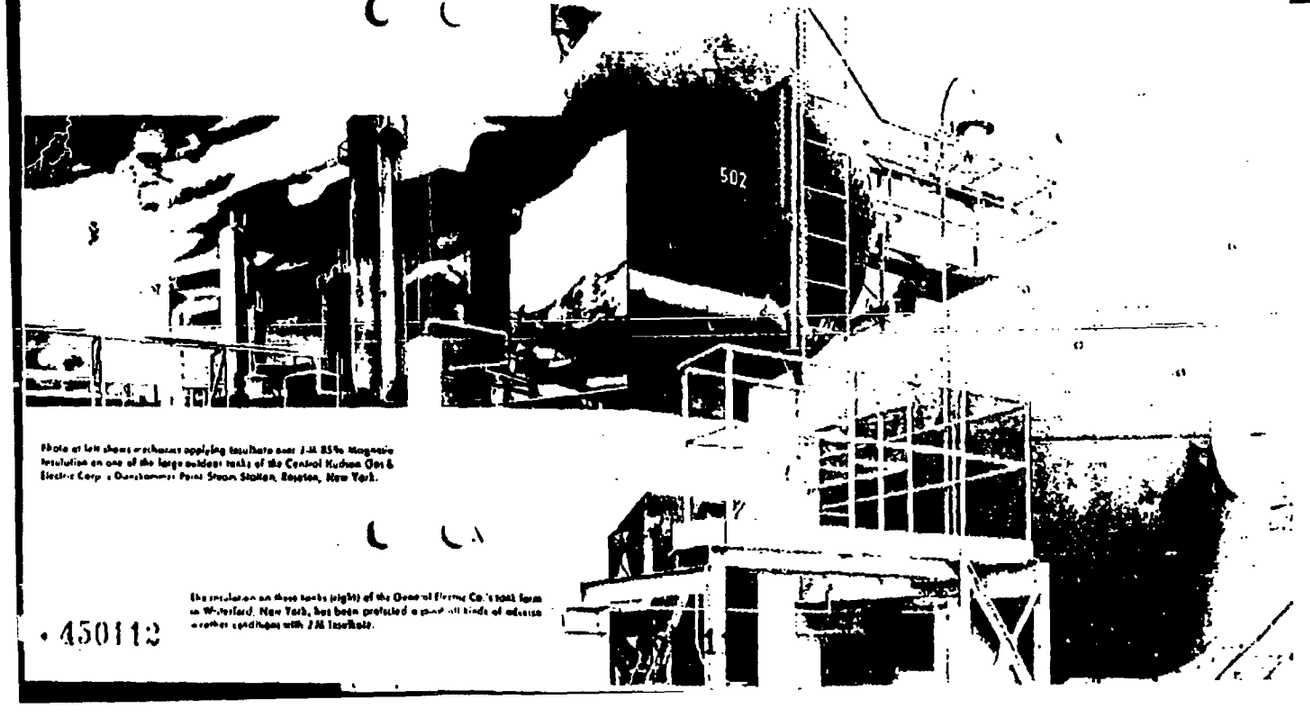


Photo at left shows workmen applying Insulkote over J-M 85% Magnesia Insulation on one of the large outdoor tanks of the Central Hudson Gas & Electric Corp.'s Danskammer Point Steam Station, Newburgh, New York.

The insulation on these tanks (right) of the General Electric Co.'s plant here in Waterford, New York, has been protected against all kinds of adverse weather conditions with J-M Insulkote.

450112

APPLICATION SPECIFICATIONS

INSULKOTE ET—On asbestos cement no primer is required, but hexagonal wire mesh reinforcement should be used. Coating should be troweled on to an approximate thickness of ¼", and care should be taken to see that it is forced through the mesh so as to make a good bond with the cement. The mesh should not be exposed to the weather at any point.

On mineral fiber insulations, Insulkote Primer E should be applied, and Insulkote ET troweled on while the primer is still tacky. Wire mesh reinforcement is not required except where movement or vibration may occur.

INSULKOTE ST—When applied on asbestos cement no primer is required, but hexagonal wire mesh reinforcement should be used. Troweling should be done firmly to make sure the coating is thoroughly forced through the mesh. Insulkote ST should not be applied in thicknesses greater than ½". Application to a greater thickness may cause slumping while there is still solvent in the coating.

On mineral-fiber insulations, Insulkote Primer S should be applied prior to application of Insulkote ST. Wire mesh reinforcement is not required except where movement or vibration may occur.

450110

INSULKOTE SG—On asbestos cement no primer is required, but wire mesh reinforcement should be used except under certain conditions where it may be desirable to substitute a glass fabric reinforcement. In the latter case, a coating of Insulkote SG, approximately 1/16" thick, shall be sprayed on the surface to be covered, and the glass fabric rolled or pressed into this coating. A second coat of Insulkote SG shall then be sprayed on to give a total wet thickness of approximately ⅛".

When used as metal protection, no primer or wire reinforcement is required. Metal must be clean and dry at time of application.

When used on mineral fiber insulations, a coat of Insulkote Primer S should be sprayed on before applying the Insulkote SG.

INSULKOTE SGC OR EGC—These coatings are furnished in consistencies suitable for spray gun or trowel application. In either case, the metal to which the coating is to be applied must be clean and dry. To build up a thickness of ¼" by spray gun, the compound should be applied in two equal ⅛" coats.

FURNISHED IN 6 READY-MIXED TYPES FOR CONVENIENT USE

NON-WATER VAPOR BARRIER

INSULKOTE ST AND EC — Non-burning, weatherproof coatings for use over insulation on heated vessels, tanks, related equipment and other insulated surfaces where "breathing" coatings are required. Insulkote ST for trowel – Insulkote EC for spray gun application.

WATER VAPOR BARRIER

INSULKOTE ST AND SC — Weatherproofing and vapor barrier coatings for insulations on refrigerated vessels, tanks, piping and related equipment. Insulkote SC is an excellent anti-corrosion coating. Insulkote ST for trowel – Insulkote SC for spray gun application.

COMBINATION PURPOSE

INSULKOTE SCC AND ECC — These coatings afford protection against weather and corrosive atmospheric conditions, and will prevent condensation under moderate conditions. Both types may be applied by spray gun or trowel.

PHYSICAL PROPERTIES

Property	Material					
	Insulkote ST	Insulkote SC	Insulkote ST	Insulkote SC	Insulkote ECC	Insulkote ECC
Type	[illegible]	emulsion	trowel	trowel	emulsion	trowel
Application	trowel	gun*	trowel	gun*	trowel or gun*	trowel or gun*
Weight per gal	10 lb	10 lb	9.5 lb	9.5 lb	7.5 lb	7 lb
Coverage as applied	16 gal per 100 sq ft 1/8" thick	16 gal per 100 sq ft 1/8" thick	8 gal per 100 sq ft 1/16" thick	8 gal per 100 sq ft 1/16" thick	16 gal per 100 sq ft 1/8" thick	16 gal per 100 sq ft 1/8" thick
Fungal Cellulose (milligrams)	50	50	75	75	40	30
Water vapor permeability in perms—for recommended thickness	2 to 5	4 to 7	4 to 7	11 to 12		
Temperature use range	300F to 250F	300F to 250F	up to 300F	up to 250F	300F to 250F	up to 250F

Code: E – emulsion type; T – trowel type; T-Gun – trowel consistency; G – spray gun consistency; C – cement filler

*Spray gun application recommended for 1 coat through brushes and over spray. Apply 2 coats of fabric reinforcement with the 1st coat and 2nd coat of surface. All Insulkote finishes have degree of resistance and protection to weather provided where a coating is used in a recommended manner.

450100



Close-up of welded vessel ready to receive insulation. Note insulation supports which have been welded to metal.



J-M 85% Magnesia insulation blocks being installed by skilled insulation applicators.

Insulkote ST protective coating over ultra mesh ground insulation against weather.

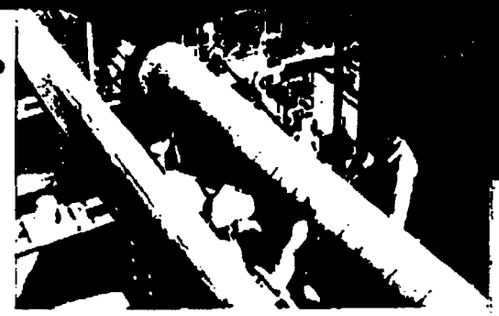


DI-15A 12-56

and for outdoor pipes *Specify*



Johns-Manville FLEXSTONE OR WEATHERPROOF JACKETS FIRETARD



J-M DOUBLE COATED FLEXSTONE® is a rugged, heavy duty, weatherproofing jacket especially recommended for the protection of insulation on outdoor pipes and small diameter cylindrical vessels. It is composed of asphalt-saturated asbestos felt coated with a mineral-filled asphalt. Correctly designed for long life, Double Coated Flexstone jackets will not embrittle under prolonged exposure to sunlight. Supplied in rolls 36 in. wide, each roll containing 108 sq ft and weighing 50 lbs.

J-M ASBESTOS FIRETARD is a weatherproofing jacket designed for use where resistance to the spread of fire is of primary importance. Firetard is a lamination of heavy asphalt-saturated asbestos felt and plain asbestos felt, and affords excellent insulation protection. Because the unsaturated asbestos is incombustible, it prevents flame from traveling along the surface of an insulated pipe line. Recommended for weatherproofing outdoor pipes and small diameter vessels wherever fire hazards are present. Supplied in rolls 32 in. wide, each roll containing 108 sq ft and weighing 55 lbs.

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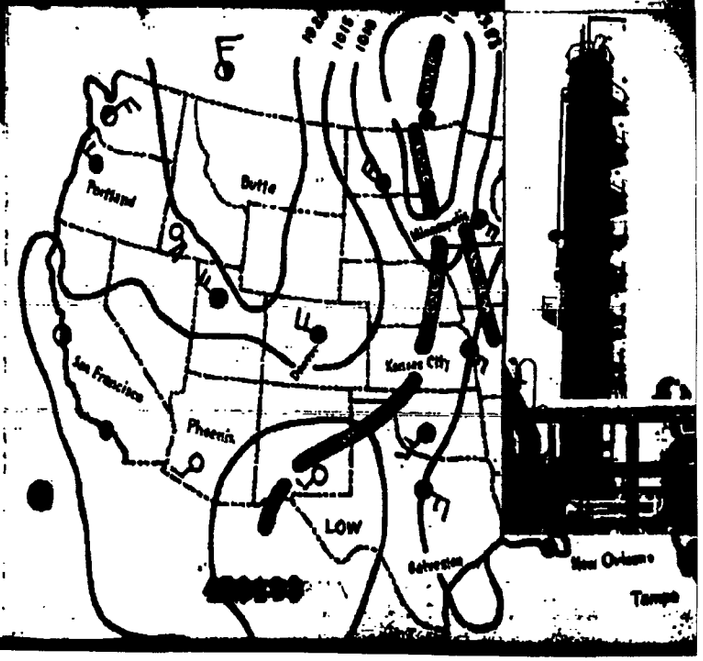
INSULKOTE

PROTECTIVE COATINGS



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Close-up of vertical vessel ready to receive insulation. Note insulation supports which have been welded to metal.

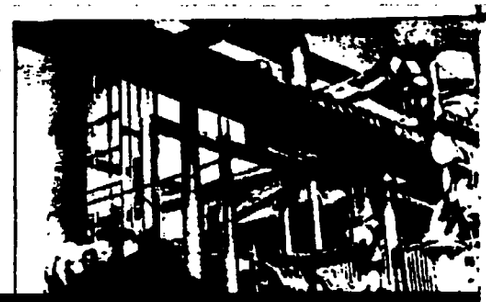


J-M 85% Magnesia insulation blocks being installed by skilled insulation applicators.

Traveling Insulkote ET protective coating over wire mesh guards insulation against weather.



and for outdoor pipes *Specify*



Johns-Manville FLEXSTONE OR FIRETARD WEATHERPROOF JACKETS



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ON TANKS AND VESSELS

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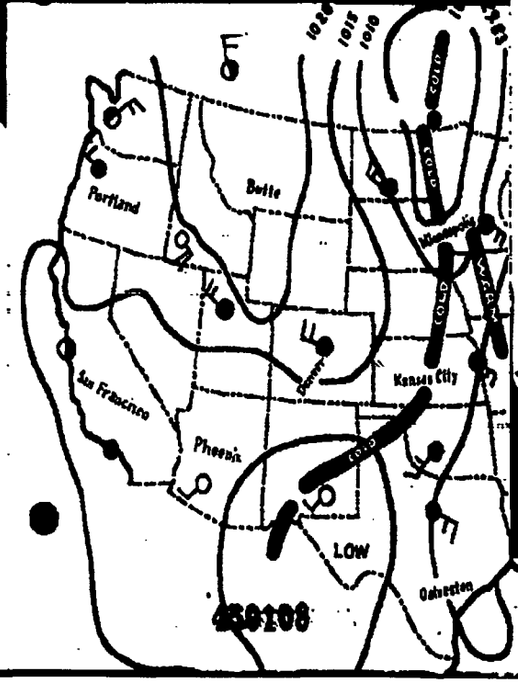

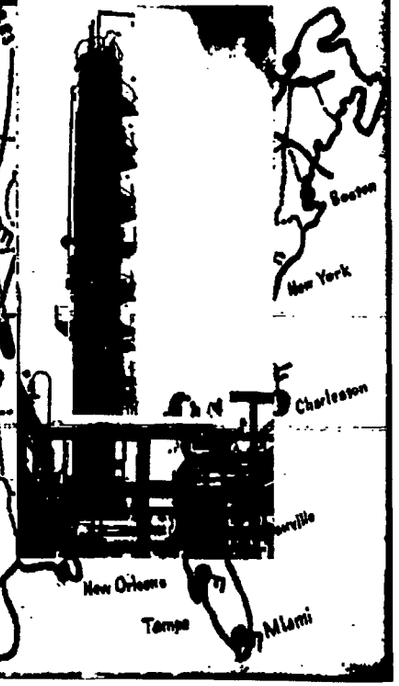

and for
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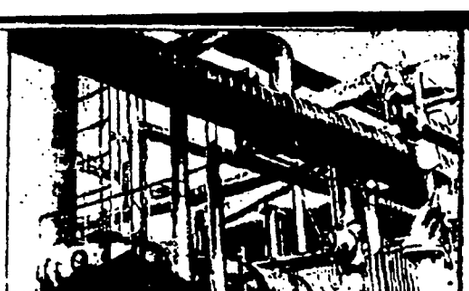
Specify



Johns-Manville

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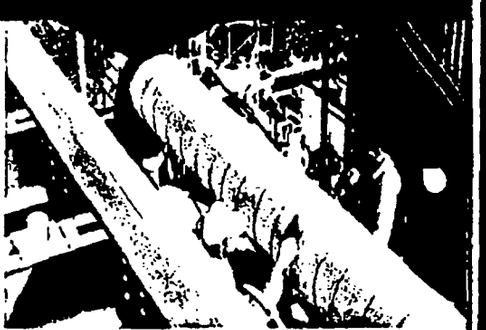

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