

SUPER "66" INSULATING CEMENT



Eagle-Picher Super "66" is a highly efficient, all-purpose insulating cement. Its outstanding ability to stick to hot or cold surfaces saves time and money in its application . . . takes the difficulty out of the insulating job. This unusual *stickability* makes Super "66" ideal for effectively and economically insulating all types of surfaces — flat, curved, overhead — wherever insulation is needed, Super "66" will do the job in less time, for less cost, with greater insulating effectiveness. Super "66" holds together; on most applications up to 1½ inches thick, no reinforcing is needed.

Super "66" is rust-inhibitive. It not only does not cause corrosion—it actually helps prevent corrosion of costly equipment. Super "66" is completely reclaimable even after exposure to temperatures as high as 1200 F. Merely chip it off, mix with water, and reapply. Once Super "66" has been subjected to a temperature of 1200 F. or above, its "k" factor is lowered and its efficiency as in insulation increases about 3.3%.

Super "66" has a unique "springy ball" structure that provides its outstanding insulating efficiency. Super "66" is composed of small, resilient pellets, each containing thousands of tiny "dead" air cells . . . one of the most effective heat barriers known. This means maximum fuel savings as well as closer temperature control.

Super "66" is suitable for practically any form of heated equipment, such as boiler drums, headers, shells, turbines, furnaces, ovens, heat exchangers, and other types of equipment including irregularly shaped pieces where the application of other insulation would be difficult or impossible.

Super "66" meets Commercial Standard C 8117.

coverage

Super "66" provides unusually high coverage making it most economical to use. Its dry coverage is 50 - 55 sq. ft., 1 inch thick per 100 lbs.

packages

Super "66" is shipped in 50-lb. multi-wall paper bags. It is also available in convenient 25-lb. bags.

application

Thoroughly clean surface of all dirt, paint, oil and loose scale. Spot Super "66" on surface and trowel to required thickness in successive layers of ½ to ¾ in. thick. Next trowel Super "66" to the desired smoothness. Application work is faster when equipment is heated. Allow each layer to dry before applying next coat.

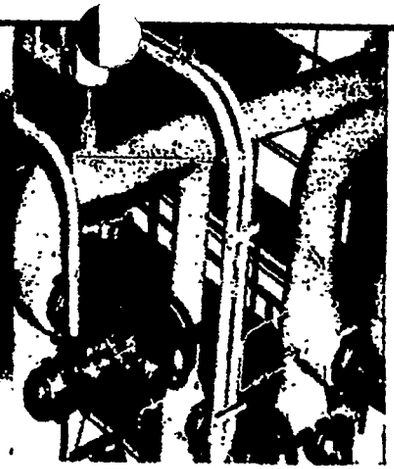


The final layer of Super "66" is trowelled to a smooth finish and allowed to dry. Eagle-Picher Insulseal or "43" Finishing Cement can then be applied for protection.





ONE-COTE CEMENT



Eagle-Picher ONE-COTE Cement goes on in *one single coat* to the desired thickness — *insulating . . . protecting . . . finishing* — all in one quick and easy application. ONE-COTE saves valuable man-hours!

It takes just one application of ONE-COTE to assure high thermal efficiency at temperatures up to 1000 F. ONE-COTE sets quickly, and when installed indoors, requires no finishing treatment.

ONE-COTE is a white, clean-handling cement. It trowels to a smooth, light-reflectant surface. After its initial set, ONE-COTE is not softened by rain or unusual moisture conditions. Its shinkage is negligible. It dries to a smooth, firm, crack-free surface.

ONE-COTE is easily painted. Oil-base paints may be applied to the dried surface and additional coats of water-base paints may be applied successively.

coverage

ONE-COTE has exceptionally good coverage. When mixed and applied as recommended on the package, it covers 140 sq. ft., ¼ in. thick, per 100 lbs.

packages

ONE-COTE is packaged in 50-lb. Multi-wall Kraft paper bags.

application

Eagle-Picher ONE-COTE Cement is applied in one operation to the desired thickness. And on inside applications, ONE-COTE needs no finishing treatment. When ONE-COTE is applied outdoors, it is usually recommended that a permanent weather-protective coating be applied.



When a hard, durable, lasting surface is required, a coat of Eagle-Picher Insulseal is recommended for application over the ONE-COTE. Insulseal is a tough, fire-retardant coating that protects insulation from vibration, abrasion, and weather . . . preserves its insulating efficiency.



PLAINTIFF'S EXHIBIT Y-100

FIREPROOFING CEMENT

SO LIGHT IN WEIGHT . . . SO EASY TO APPLY



Eagle-Picher Fireproofing Cement, 1¾" thick, provides 3-hour protection, as revealed in Underwriters' Laboratories report R-3143, covering a full scale column test made according to ASTM Standard E-119. Subscribers to Underwriters' Laboratories may refer to Guide No. 510 10, April 22, 1949, File R-3143.

Eagle-Picher Fireproofing Cement makes possible one of the *lightest, easiest-to-apply* and most efficient fireproofing systems you can get. Because it's so light in weight, simpler, less costly construction is required. On average jobs, there is no need for heavy reinforcing. In the case of tall structures, this weight saving may even permit the use of smaller steel columns.

Eagle-Picher Fireproofing Cement is easy to apply. You simply trowel it on *after surfaces* have been prepared by installation of metal lath or mesh. Only 24 hours are required for it to set hard.

Eagle-Picher Fireproofing Cement resists corrosion. Patented rust inhibitors are incorporated in Eagle-Picher Fireproofing Cement, thus affording valuable PLUS protection against rust and corrosion where the material contacts structural members.

Eagle-Picher Fireproofing Cement serves in temperatures up to 2000 F.

recommended thicknesses

Thickness of Fireproofing Cement	*Approximate Fire Resistance Rating*
1"	2 hours
1½"	3 hours
2"	4 hours

coverage

Eagle-Picher Fireproofing Cement has a high coverage of approximately 30 sq. ft., 1 in. thick per 100 lbs.

package

Packed in 100-lb. Kraft paper bags containing approximately 4 cu. ft.

applications



In fireproofing structural members, a metal lath base is advisable.



Fireproofing Cement is sported and troweled to the desired thickness in only one operation.



The surface should be scored to provide a good key base for any finishing treatment. In only 24 hours, a protective coating may be applied if desired.

EAGLE-PICHER INSULATING and [illegible]

EAGLE-PICHER designation	type	features	coverage	[illegible]
"33"	insulating cement	For temperatures to 1800 F. Dries to form bright finish. Has exceptional adherence to masonry surfaces.	Approximately 70 sq. ft., 1 in. thick, per 100 lbs.	50-lb. [illegible] paper bags
"43"	finishing cement	For temperatures to 1000 F. A hard, white finish coating for indoor insulation. Will not disintegrate. Light reflectance of over 60%. Not affected by acids or vapors. Resists abrasion. Will not crack or check even on pipes of small diameter.	Approximately .115 sq. ft., ½" thick per 100 lbs.	[illegible] paper bags
"99"	finishing cement	For temperatures to 1000 F. A hard, durable asbestos cement. Adheres to both hot and cold surfaces.	Applied in a layer ½" thick, about 95 sq. ft. per 100 lbs.	100-lb. steel-[illegible] lined Kraft paper bags
"111"	high temperature cement	For temperatures to 2300 F. A high refractory insulating material.	22.5 sq. ft., 1 in. thick, per 100 lbs.	100-lb. [illegible]
"20"	fire resistant cement	For temperatures to 1000 F. Guaranteed minimum screening test of 0-0-1-15. Grit-free.	Covers 30 sq. ft., 1" thick per 100 lbs.	[illegible] bags

P V SUPERTEMP BLOCK

EFFICIENCY, DURABILITY & GREAT STRENGTH



Eagle-Picher P V Supertemp Block is manufactured through a completely new process utilizing special equipment and techniques of varying pressures and vacuums . . . a development of Eagle-Picher's own Research Laboratories and Engineering Dept. P V Supertemp Blocks meet a specific demand in the heat insulating field for an efficient insulating block with great breaking strength to withstand a full range of temperatures up to 1900 F.

P V Supertemp Blocks can be installed quickly and easily. They pay for themselves in fuel savings and improved temperature control. Because of their lasting efficiency, P V Supertemp Blocks assure continuing savings. Test after test by scientific laboratories prove P V Supertemp's outstanding effectiveness.

P V Supertemp Blocks have extremely low thermal conductivity, so essential to reduced operating costs. Ease of application means low cost per square foot.

P V Supertemp Blocks are all-purpose blocks. They meet the demands of all operating temperatures up to 1900 F. Only one type block is needed.

P V Supertemp Blocks are easily cut with a knife to fit irregular surfaces, yet they are strong enough to hold up under normal handling and usage.

P V Supertemp Blocks are light in weight. Low density facilitates handling and indicates the presence of myriads of "dead" air cells essential to high efficiency. Require only minimum reinforcing. They are easy to apply; single layer construction minimizes application cost and increases efficiency.

P V Supertemp Blocks resist moisture. They are as permanent as only mineral wool can be! They do not disintegrate or lose their efficiency under service for which they are recommended.

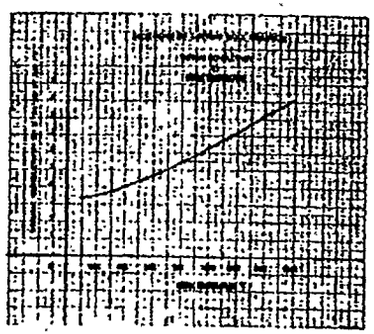
P V Supertemp Blocks may be obtained with a hard surface upon order.

recommended uses

Breechings	Annealing Pits
Tanks	Hot Air Ducts
Towers	Chilling Pits
Lehrs	Turbines
Ovens	Pit Covers
Boiler Walls	Behind Furnace Refractories
Melting Tanks	Heat Treating Furnaces

Kilns in Glass and Ceramic Industries

conductivities



properties

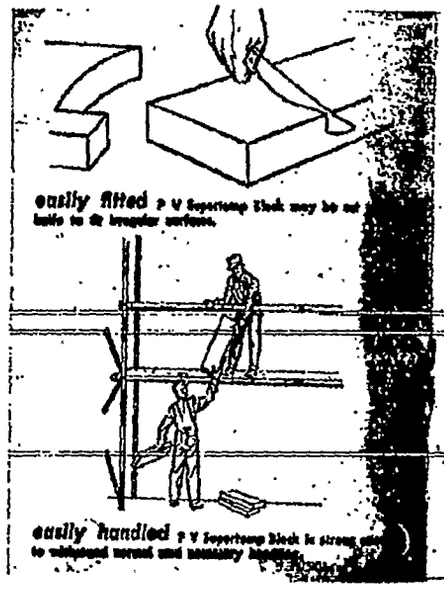
Density	30 lb./cu. ft. avg.
Service Temp.	Up to 1900 F.
Moisture Absorption	Practically nil
Corrosion to steel	Does not cause or accelerate
Fire resistance	Incombustible
Linear shrinkage at 1900 F.	1.0%
Loss in weight at 1900 F.	2%
Modulus of rupture	57.5 psi avg.
Breaking strength	23 lbs. (1" x 6" x 10" span) avg.
Standard Sizes:	
Length	18 in. and 36 in.
Width	6 in. and 12 in.
Thickness	1 in. to 4 in. in ½ in. increments

recommended thickness

TEMPERATURE	THICKNESS
100-250 F.	1 - 1½ in.
251-400 F.	2 in.
401-600 F.	3 in.
601-750 F.	3½ in.
751-900 F.	4 in.
901-1050 F.	4½ in.
1051-1200 F.	5 in.
1201-1400 F.	6 in.

quantities and weights

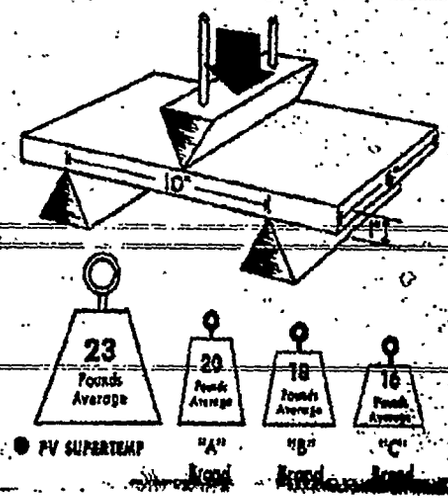
THICKNESS	BD. FT. PER CTN.		SQ. FT. PER CTN.	
	18"	36"	18"	36"
1 in.	45	48	45	48
1½ in.	45	45	30	30
2 in.	45	48	22.5	24
2½ in.	45	45	18	18
3 in.	45	45	15	15
3½ in.	42	42	12	12
4 in.	42	48	10.5	12

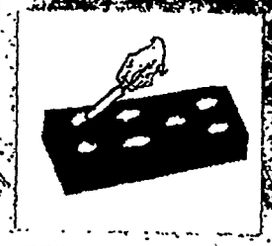


easily fitted P V Supertemp Block may be cut [illegible] knife to fit irregular surfaces.

easily handled P V Supertemp Block is strong [illegible] to withstand normal and necessary handling.

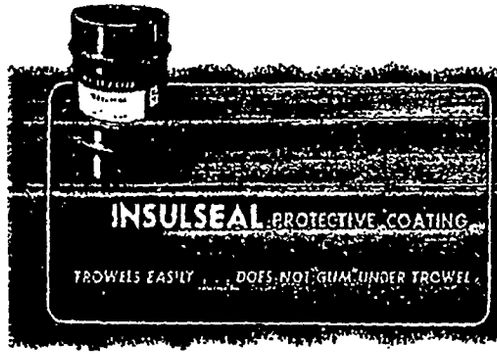
comparative strength of P V SUPERTEMP ...against other brands

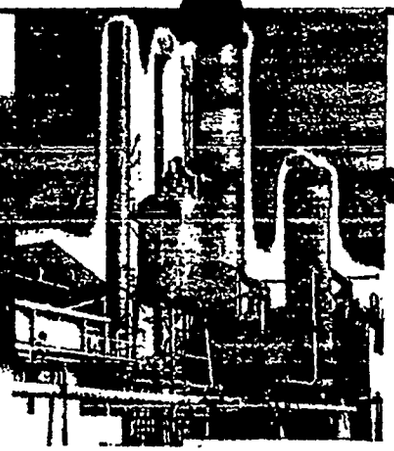




INSUL-STIC adhesive

Eagle-Picher Insul-Stic is a paste-like adhesive used to simplify the application of P V Supertemp Block. It not only [illegible] the application, but also eliminates the need for buying temporary mechanical fastening devices. On smooth surfaces, [illegible] lbs. are required per [illegible] sq. ft.; on rough surfaces, [illegible] lbs. per [illegible] sq. ft. Eagle-Picher Insul-Stic is furnished in [illegible], [illegible], [illegible] and [illegible] lb. net weight containers.





Eagle-Picher Insulseal works evenly under the trowel. It saves time because it does not "gum." Because it trowels so smoothly and evenly, *uniform coverage and proper thickness* are more readily secured.

Insulseal is a tough, weather-proof, fire-resistant, protective coating for insulation. It provides protection against vibration and punctures, safeguards the insulation from weather. It seals insulation against air infiltration, rain, snow, or sleet.

Insulseal is washable. The surface may be washed down with hose or sponge without injuring the insulation in any way . . . an important factor in establishments where cleanliness and good appearance are important.

Insulseal lasts long because it does not rot, tear, or pull loose as chief surfaces often do. Toughness and elasticity prevent it from cracking under normal changes in temperature. It will not scale or peel. It strongly resists scuffing or puncturing. Insulseal tends to "give" when subjected to accidental bumps or pressure.

Insulseal comes ready mixed and is quickly and easily applied. Only moderate care is required to perform a thoroughly satisfactory application. It will not run or sag on vertical surfaces.

Insulseal is suitable for all insulation surfaces when the temperature of the surfaces does not exceed 150 F.

Insulseal is easy to stock since it is the only material required. It is not necessary to stock pastes and other items such as are necessary for the application of most finishes.

Insulseal gives a neat appearance. It dries to a smooth, [illegible] black on either hot or cold surfaces. Although not necessary, it may be painted to match surroundings or to identify pipe lines or other equipment.

coverage

[illegible] sq. ft., [illegible]" thick per 100 lbs., wet coverage. Virtually all the material may be used because there is no cutting or fitting.

packaging

Insulseal is available in two consistencies: Insulseal Summer (S) and Insulseal Winter (W). Summer consistency is used where Insulseal dries before being subjected to freezing temperatures. Insulseal is packed in containers in weights of [illegible], 150, 300, and 500 lbs. net.

applications





Insulation that is worth buying and applying is worth protecting . . . and wherever there's insulation, there should be a protecting coat of Insulseal. The need for this protection as well as a desire for economy, convenience, washability, and improved plant appearance are the reasons behind Insulseal's wide acceptance among plant owners.

The fact that Insulseal may be used as a protective coat for insulation on both indoor and outdoor equipment makes it truly an "all-purpose" finish and protective coating. Insulseal is available in the right consistency to suit the temperatures under which it will be applied.

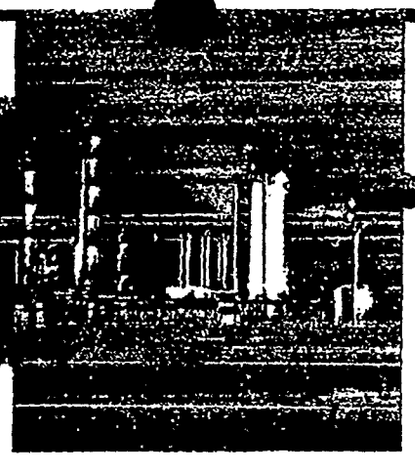
OTHER EAGLE-PICHER PROTECTIVE COATINGS AND SEALS

EAGLE-PICHER designation	type	features	coverage	package
STALASTIC	semi-viscous plastic coating	An effective boiler wall coating for reducing air infiltration. For temperatures to 400 F. or 700 F. Makes boiler settings air-tight. Stays flexible and pliable when used at recommended temperatures. Available in two grades: Standard and High Temperature.	Approximately 12 sq. ft. per gal., applied ½" thick, depending on the surface to be covered.	1, 5, 15, 30 and 55-gal. drums. Stalastic weighs 10 lbs. per gal.
STAMASTIC	mastic weather-proof coating	Standard grade for temperatures to 300 F.; High Temperature grade to 500 F. Forms a tough, efficient vapor barrier. Impervious to most acids, alkalies, and chemical fumes. Easily sprayed or troweled over all standard types of insulation, steel, iron and other building materials.	20 sq. ft., 1/16" thick, per gal.	5, 30, and 55-gal. drums.
SWETCHEK	anti-condensation compound	Reduces condensation on cold surfaces. Highly absorbent and rust-inhibitive coating in mastic form. Can be applied by trowel or putty knife.	Wet coverage of 65 sq. ft., ½"-½" thick to any clean, dry surface.	5½, 16, 32 and 55-gal. containers weighing about 50, 150, 300 and 500 lbs.

MINERAL WOOL BLANKETS

FACTORY-FABRICATED

. . . to rigid specifications



Eagle-Picher Blankets are fabricated according to Eagle-Picher's own rigid specifications as outlined by their Research Department to give customers what they prefer . . . blankets with maximum thermal efficiency and lasting economy.

This rigidly controlled factory-fabrication of Eagle-Picher Blankets means that every blanket is made up of many felted layers of Eagle-Picher Mineral Wool, with ends overlapped to form smooth, trim edges that can be tightly and efficiently butted together . . . an immediate savings in application time as well as a long range, continuous savings in fuel.

Factory-fabrication by Eagle-Picher means that Eagle-Picher Blankets are completely free of large "voids" so often found in field-made blankets where insulation is merely packed in place. Rigidly controlled production methods assure efficient mineral fibers are evenly dispersed over the entire area of each blanket . . . uniform throughout.

Eagle-Picher Blankets are extra sturdy and flexible in their construction. They are ideal for scores of insulating uses.

Copper bearing steel laths, bound by uniformly spaced soft drawn galvanized tie wires, keep the blankets firm but flexible. Eagle-Picher Blankets withstand temperatures as high as 1200 F without loss of insulating efficiency.

When applying Eagle-Picher Blankets no extra material is required to obtain air space between the hot surface and the insulation. Automatic air spacing is provided when blankets, faced with hi-rib (turned out) metal lath, are installed with ribs against hot surface.

Eagle-Picher Blankets can be readily cut right on the job with tin shears, to fit irregular areas or around obstructions.

Eagle-Picher High Temperature Mineral Wool in Eagle-Picher Blankets has unique, outstanding chemical and physical stability. It strongly resists the deteriorating effects of water, steam, moisture, or corrosive fumes, withstands all normal vibrations without breaking down, and retains its efficiency.

sizes

Eagle-Picher Blankets are available in pieces [illegible] and [illegible] making it [illegible] easily.

recomended uses

Enameling Ovens	Hot Air Ducts
Drying Ovens	Brick Kilns
Lacquer Ovens	Boilers and Breechings
Japanning Ovens	Bubble Towers
Core Ovens	Railroad Tank Cars
Industrial Washing Machines	Stills
Large Vessels and Tanks	Heat Exchangers

standard styles

Style No.	Fabric Used
200	1 in. wire mesh on both sides
200-A	Stucco lath on both sides
200-B	1 in. wire mesh and stucco lath
201	Stucco lath and expanded lath
201-A	1 in. wire mesh and expanded lath
202	Expanded lath on both sides
203	Stucco lath and 3/8" rib lath
203-A	Same as 203 except rib turned out
203-B	1 in. mesh and 3/8" rib lath
203-C	Same as No. 203-B except rib turned out
204	Expanded lath and 3/8" rib lath
204-A	Same as No. 204 except rib turned out
205	Stucco lath and 3/8" rib lath
205-A	Same as No. 205 except rib turned out
206	Expanded lath and 3/8" rib lath
206-A	Same as No. 206 except rib turned out
207	3/8" rib lath on both sides
207-A	Same as 207, except rib turned out on both sides
208	No. 12 mesh fly screen on both sides

OTHER EAGLE-PICHER FLAT AND LOOSE MATERIALS

EAGLE-PICHER designation	features	package
"77" PIPE COVERING	Easy to install, pre-sized pipe covering for temperatures to 1200 F. Inside metal fabric is designed to fit the outside circumference of the pipe to be insulated. Provides excellent operating temperature control and quickly pays for itself through its efficiency. Fire-resistant. Water-repellent. Readily cut on the job with ordinary metal shears. Gives virtually permanent protection.	Available in 2 ft. lengths for 1 to 12 in. IPS and 14 to 30 in. OD, 1 to 4 in. thick in ½ in. increments. Other sizes and thicknesses are available on special order.
MINERAL WOOL FELT 	For temperatures to 600 F. Meets Commercial Standard CS105 and Federal Specifications HH-I-563 and HH-I-542. Non-combustible. Water-repellent; does not absorb moisture or water. Chemically neutral; has a pH range of 7.0 to 8.0 and is as chemically neutral as distilled water. Easy to apply.	Packed in 30 in. x 24 in. x 24 in. cartons with stencilled data on carton to indicate density, size, thickness, and number of pieces in carton. Available in sizes 24 in. x 30 in., in thickness 1 in. to 4 in. inclusive.
LOOSE WOOL 	For temperatures to 1200 F. Meets Commercial Standard CS105 Does not break down, disintegrate, or lose its insulating efficiency. Available in two types: Type "H-2" — A loose insulating wool for ovens, furnaces, boiler walls, and similar purposes where bulk insulation is required. Type "7-8" — A granulated insulating wool for use wherever a pellet type insulation is desirable. It is easily applied and is especially suitable for filling irregular spaces. Light in weight; more coverage per lb. Resilient fibers. Low thermal conductivity; at a mean temperature of 350 F., it is approximately 0.47 B.T.U. per in. per hr. per sq. ft. per F. This value will vary a small amount, depending upon the density at which it is installed.	Packed in Kraft paper bags of 50 lbs. net weight.



INDUSTRIAL MINERAL FIBER INSTITUTE
HOT OR COLD
IT NEEDS INSULATION

Quality control assures product efficiency

Uniformity of Eagle-Picher Industrial insulation is under constant check at the Eagle-Picher Research Laboratories in Joplin, Mo. Precise control over the entire production process assures industry top level quality in the entire line of Eagle-Picher products.

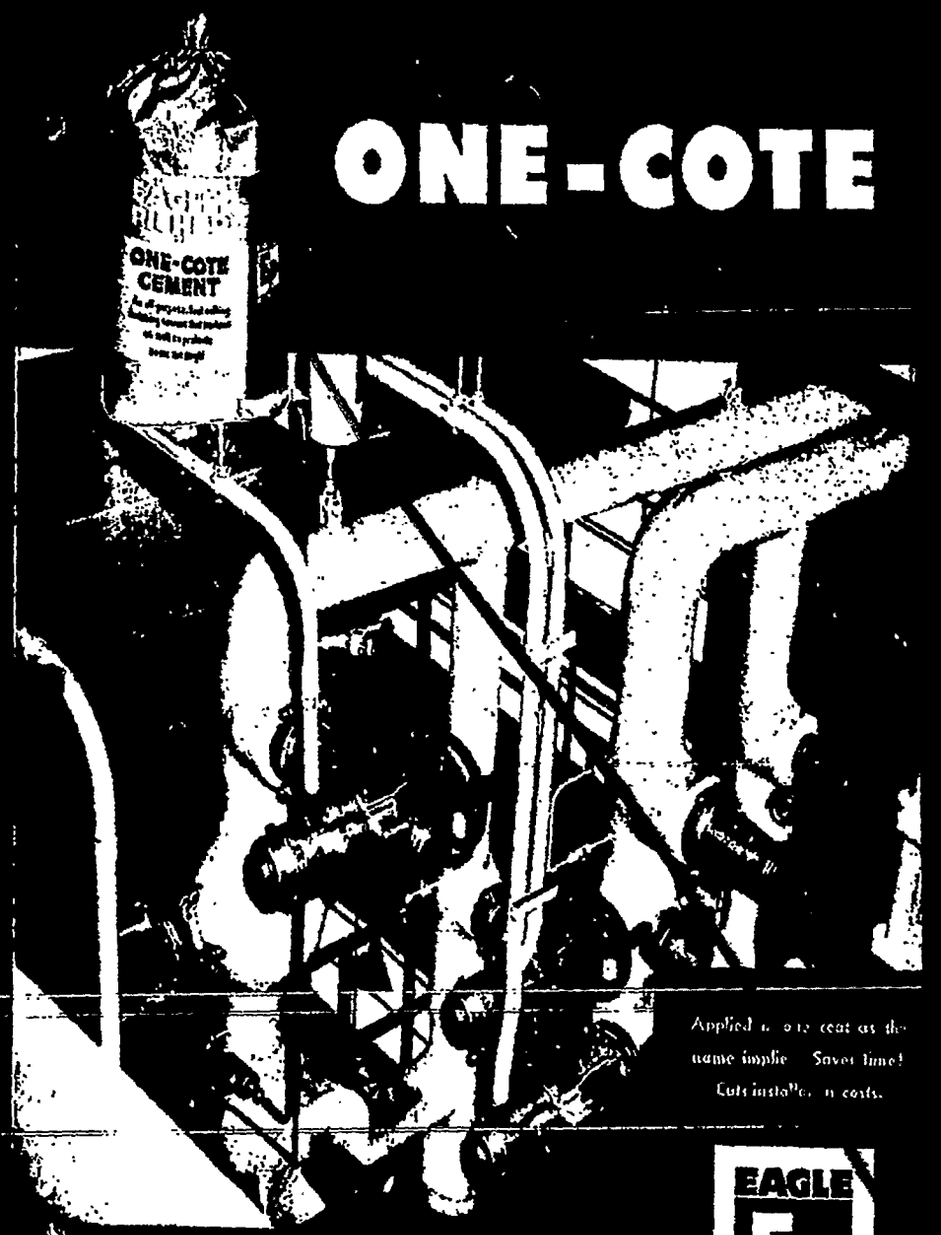
The history of Eagle-Picher dates back to 1843. From that date, one small plant in Cincinnati has grown to many plants and several-score mines located throughout the United States, Canada and Mexico. Today, Eagle-Picher holds a distinguished position as one of the world's largest miners of zinc. Eagle-Picher is also recognized as a leading processor of lead and zinc products, and manufacturer of lead, zinc, insulation, and home comfort products. Exacting supervision of manufacture assures products which will give uniformly high performance and complete customer satisfaction.

Enroll

EP

THE EAGLE-PICHER COMPANY

ONE-COTE



Applied in one coat as the name implies. Saves time! Cuts installation costs.

A quick-setting, rust-inhibitive, combination
INSULATING AND FINISHING CEMENT

EAGLE EP PICHER