

DIRECTORY

of the

Refractories Industry

TENTH EDITION

American Refractories Institute

1872 Railway Exchange Building

ST. LOUIS, MO.

1942

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The object of the American Refractories Institute is to serve manufacturers and consumers of refractories as a clearing house for the interchange of information pertaining to their mutual interests and as a means for the encouragement and protection of trade and commerce in refractories.

Filed at 5/6/55

Product Directory of the Refractories Industry

FUNCTIONS OF THE REFRACTORIES INSTITUTE

The Refractories Institute is a national trade association organized in 1951 with headquarters in Pittsburgh, Pa., to promote the interests of manufacturers and consumers of refractory products. Its objects are:

1. To promote demand for products of the refractories industry,
2. To conduct research to improve products and processes of the industry and to develop new uses for products of the industry,
3. To collect, compile and distribute information with respect to matters relating to the industry,
4. To confer and cooperate with government agencies and other official bodies in the interest of the public and the industry.

PURPOSE OF THE PRODUCT DIRECTORY

The purpose of this Directory is to list in convenient form for reference, the names and addresses of manufacturers of refractories in the United States, the locations of plants, the product divisions and the brand or trade names under which the products are sold.

An effort has been made to have the list of refractory manufacturers and their brands as complete as possible. The information presented pertains not only to manufacturers who are members of The Refractories Institute but to all others who desired to be included. The subject matter presented was secured voluntarily from refractory manufacturers and, although care has been taken to avoid errors, The Refractories Institute cannot be held responsible for the accuracy of the information given.

Copies of this Product Directory may be obtained from The Refractories Institute, 1801 First National Bank Building, Pittsburgh 22, Pa.

THE REFRACTORIES INSTITUTE

November 1, 1954

INDEX OF DESIGNATIONS

Divisions of the Refractories Industry

DIVISION	DESIGNATION	PRODUCTS
Acid-Proof	Acid-Proof	Brick and other Acid-Proof products.
Basic Refractories	Basic	Brick and other products in Chrome or Magnesite material.
Cast Refractories and Castables	Cast	Refractory Mixtures.
Fireclay Brick	Fire Brick	High—Intermediate—Low Heat Duty Fireclay Brick.
Fireclay Brick Super-Duty	Fire Brick (S. D.)	Super-Duty Fireclay Brick.
Fire Clays	Fire Clay	Raw and Prepared Refractory Clays.
Foundry Refractories (Sleeves—Nozzles—Runner Brick and Tuyeres)	Fdry. Ref.	Shapes in Fireclay material.
Glass House Refractories	Glass	Specialty Products for Glass Plants.
High Alumina Refractories	H-A Ref.	Brick containing 50% or more Alumina and including High-Alumina Clays.
High Temperature Bonding Mortars	H. T. Mortar	Wet or Dry High Temperature Mortars.
Insulating Fire Brick	Ins. F. B.	Brick and Bulk Insulation.
Ladle & Hot Top Refractories	Ladle & Hot Top	Brick and Shapes in Fireclay material.
Locomotive Arches	Loc. Arch	Locomotive Firebox Shapes.
Miscellaneous Refractories	Misc. Ref.	Sillimanite, Mullite, Fused Alumina, Silicon Carbide, and Forsterite.
Plastic Refractories	Plastic	Plastic Refractory Mixtures.
Silica Refractories	Silica Ref.	Brick and Shapes in Silica material, including Silica Clays.
Suspended Arches and Walls	Susp. Arch	Shapes for Sectionally Suspended Walls and Arches.

BRAND	QUALITY	DIVISION	LOCATION
*FLEXIBRICK COMPANY, Milwaukee, Wisconsin			
Flexibrick		Plastic	Milwaukee, Wis.
FOX RIVER CLAY WORKS, Central Life Building, Ottawa, Illinois			
Dix		Fire Clay	Dayton, Ill.
Elk		Fire Clay	Dayton, Ill.
Fox		Fire Clay	Dayton, Ill.
Fox-X		Fire Clay	Dayton, Ill.
Yak Bond		Fdry. Ref.	Dayton, Ill.
*FRANCE REFRACTORIES COMPANY, J. H., Snow Shoe, Pennsylvania			
Hydrecon No. 5		Cast	Snow Shoe, Pa.
Hydrecon No. 69		Cast	Snow Shoe, Pa.
Hydrecon No. 115		Cast	Snow Shoe, Pa.
Hydrecon No. 186		Cast	Snow Shoe, Pa.
Case	3rd	Fire Brick	Clearfield & Winburne, Pa.
Center	2nd	Fire Brick	Clearfield & Winburne, Pa.
France Bung	1st	Fire Brick	Snow Shoe, Pa.
France Non-Spall	1st	Fire Brick	Snow Shoe & Winburne, Pa.
Lehigh	1st	Fire Brick	Snow Shoe & Winburne, Pa.
Silex	1st	Fire Brick	Snow Shoe, Pa.
Corindon	Super-Duty	Fire Brick (S. D.)	Snow Shoe, Pa.
Rockspar	Super-Duty	Fire Brick (S. D.)	Snow Shoe & Winburne, Pa.
France Grade "A"		Fire Clay	Snow Shoe, Pa.
Standard		Fire Clay	Snow Shoe, Pa.
Francite	70% Alumina	H-A Ref.	Snow Shoe & Winburne, Pa.
Franco	60% Alumina	H-A Ref.	Snow Shoe & Winburne, Pa.
Medal	50% Alumina	H-A Ref.	Snow Shoe & Winburne, Pa.
France (Dry, Air-Set)		H. T. Mortar	Snow Shoe, Pa.
Francite (Dry, Heat-Set)		H. T. Mortar	Snow Shoe, Pa.
Fran-Set (Wet, Air-Set)		H. T. Mortar	Snow Shoe, Pa.
27-D Shooting Mix		H. T. Mortar	Snow Shoe, Pa.
Francite Insulator		Ins. F. B.	Snow Shoe, Pa.
Franco-Plastic		Plastic	Snow Shoe, Pa.
FREEPORT BRICK COMPANY, Freeport, Pennsylvania			
Freeport		Ladle & Hot Top	Freeport, Pa.
FRISCO MINERALS COMPANY, St. James, Missouri			
.....		Fire Clay	St. James, Mo.
GALLUP CLAY PRODUCTS COMPANY, Gallup, New Mexico			
Gallup		Fire Brick	Gallup, N. M.
.....		Fire Clay	Gallup, N. M.

BRAND	QUALITY	DIVISION	LOCATION
*GARFIELD REFRACTORIES COMPANY, Bolivar, Pennsylvania			
Acme	3rd	Fire Brick	Robinson, Pa.
Garfield	1st	Fire Brick	Robinson, Pa.
Garnite		Fire Brick	Robinson, Pa.
IXL		Fire Brick	Robinson, Pa.
Walbro	2nd	Fire Brick	Robinson, Pa.
Corstex	Super-Duty	Fire Brick (S. D.)	Robinson, Pa.
Balgar	50% Alumina	H-A Ref.	Robinson, Pa.
Balgar	60% Alumina	H-A Ref.	Robinson, Pa.
*GENERAL REFRACTORIES COMPANY, 1600 Real Estate Trust Building, Philadelphia, Pennsylvania			
Acido		Acid-Proof	Beech Creek, Pa.
Austrian Magnesite Grains		Basic	Baltimore, Md.
Chewelah Magnesite Grains		Basic	Baltimore, Md. & Chewelah, Wash.
GRCO Chrome Brick		Basic	Baltimore, Md.
GRCO Magnesite Brick		Basic	Baltimore, Md.
GRCO Peritex Magnesite Brick		Basic	Baltimore, Md.
GRCO Plastic Chrome Ore		Basic	Baltimore, Md.
GRCO Retort Patch (Chrome)		Basic	Baltimore, Md.
Grefco Grog (Chrome Base)		Basic	Baltimore, Md.
Ground Magnesite (Furnace Cement)		Basic	Baltimore, Md. & Chewelah, Wash.
Low-Iron Ground Magnesite (Furnace Cement)		Basic	Baltimore, Md.
No. 1 Ground Chrome Ore		Basic	Baltimore, Md.
No. 3 Ground Chrome Ore		Basic	Baltimore, Md.
No. 7 Ground Chrome Ore		Basic	Baltimore, Md.
No. 30 Lump Chrome Ore		Basic	Baltimore, Md.
No. 40 Lump Chrome Ore		Basic	Baltimore, Md.
Ritex-A Chrome-Free Magnesite Brick		Basic	Baltimore, Md.
Ritex-A Magnesite Brick		Basic	Baltimore, Md.
Ritex-C Chrome Brick		Basic	Baltimore, Md.
Steelklad Magnesite Brick		Basic	Baltimore, Md.
GRCO No. 20 Castable		Cast	Orviston, Pa.
Acme	1st	Fire Brick	St. Louis, Mo.
Acme Bung	1st	Fire Brick	St. Louis, Mo.
Acme Sidewall	1st	Fire Brick	St. Louis, Mo.
Bald Eagle	1st	Fire Brick	Beech Creek, Pa.
Beech Creek	1st	Fire Brick	Beech Creek, Pa.
Beech Creek Bung (BC)	1st	Fire Brick	Beech Creek, Pa.
Beech Creek Roof (BCR)	1st	Fire Brick	Beech Creek, Pa.
Biasbrix (Pat.)	1st	Fire Brick	All Clay Plants
Carter	1st	Fire Brick	Hitchins, Ky.
Diamond-H	2nd	Fire Brick	Hitchins, Ky.
Egypt	1st	Fire Brick	Oak Hill, Ohio
Hayes Run	1st	Fire Brick	Orviston, Pa.
Kaolin	1st	Fire Brick	Stevens Pottery, Ga.
Olive Hill	1st	Fire Brick	Olive Hill, Ky.
Olive Hill Bung	1st	Fire Brick	Olive Hill, Ky.
Olive Hill H & B	1st	Fire Brick	Olive Hill, Ky.
Olive Hill Inwall	1st	Fire Brick	Olive Hill, Ky.

BRAND	QUALITY	DIVISION	LOCATION
<i>*General Refractories Company, Continued</i>			
Olive Hill Sidewall	1st	Fire Brick	Olive Hill, Ky.
Olive Hill Stove	1st	Fire Brick	Hitchins & Olive Hill, Ky.
Olive Hill Top	1st	Fire Brick	Olive Hill, Ky.
Orvis	2nd	Fire Brick	Orviston, Pa.
Osage	1st	Fire Brick	Danville, Ill.
Penn	1st	Fire Brick	West Decatur, Pa.
Portsmouth	1st	Fire Brick	Oak Hill, Ohio
PRCO	No. 1 Ohio	Fire Brick	Oak Hill, Ohio
Ranger	1st	Fire Brick	Malakoff, Tex.
Ridge	No. 2 Ohio	Fire Brick	Oak Hill, Ohio
Ridge	3rd	Fire Brick	Orviston, Pa.
St. Louis	2nd	Fire Brick	St. Louis, Mo.
Salina	1st	Fire Brick	Salina, Pa.
Salina-40	1st	Fire Brick	Salina, Pa.
Savage	No. 1½ Ohio	Fire Brick	Oak Hill, Ohio
Special HR	1st	Fire Brick	Various Clay Plants
Stevens	2nd	Fire Brick	Stevens Pottery, Ga.
Texas	2nd	Fire Brick	Malakoff, Tex.
Wynn	1st	Fire Brick	West Decatur, Pa.
Wynn Roof	1st	Fire Brick	West Decatur, Pa.
Airam	Super-Duty	Fire Brick (S. D.)	Danville, Ill. & St. Louis, Mo.
Hiac	Super-Duty	Fire Brick (S. D.)	St. Louis, Mo.
Superac	Super-Duty	Fire Brick (S. D.)	Danville, Ill.
ARCO-70 Pulverized		Fire Clay	Danville, Ill.
Calcined Lump Clay		Fire Clay	Various Plants
CALKAO Mortar		Fire Clay	Stevens Pottery, Ga.
Everhard Mortar		Fire Clay	Various Clay Plants
GRCO Ground Brick, various meshes		Fire Clay	All Clay Plants
GRCO Ground Calcine, various meshes		Fire Clay	All Clay Plants
GRCO Ground Fire Clay		Fire Clay	All Clay Plants
HIAC Mortar		Fire Clay	St. Louis, Mo.
Raw Lump Clay		Fire Clay	Various Plants
Salina 75-B Fire Clay		Fire Clay	Various Plants
SUPERAC Mortar		Fire Clay	Danville, Ill.
Arco	60% Alumina	H-A Ref.	Danville, Ill.
Arco-70	70% Alumina	H-A Ref.	Danville, Ill.
Arco-80	80% Alumina	H-A Ref.	Danville, Ill.
Semalu	50% Alumina	H-A Ref.	Danville, Ill.
Wynn-50	50% Alumina	H-A Ref.	West Decatur, Pa.
Wynn-60	60% Alumina	H-A Ref.	West Decatur, Pa.
BRIKLOK-A (Wet, Air-Set)		H. T. Mortar	St. Louis, Mo.
BRIKLOK-B (Dry, Air-Set)		H. T. Mortar	St. Louis, Mo.
GRCO C-32 (Heat-Set)		H. T. Mortar	Orviston, Pa.
GRCO Sillimanite		H. T. Mortar	Danville, Ill.
Grefco (Chrome Base)		H. T. Mortar	Baltimore, Md.
Standard Bonding Mortar (Air-Set)		H. T. Mortar	Joliet, Ill. & Sproul, Pa.
.....		Loc. Arch	Various Clay Plants
GRCO Sillimanite		Misc. Ref.	Danville, Ill.
GRCO Plastic Fire Brick		Plastic	Various Plants
GRCO Plastic Sillimanite		Plastic	Danville, Ill.

BRAND	QUALITY	DIVISION	LOCATION
*Chicago Fire Brick Company, Continued			
Brikset 404		H. T. Mortar	Chicago, Ill.
Brikset 406		H. T. Mortar	Chicago, Ill.
Brikset 804		H. T. Mortar	Chicago, Ill.
Brikset 808		H. T. Mortar	Chicago, Ill.
Chico Brikset		H. T. Mortar	Chicago, Ill.
Thermo-Stucco		H. T. Mortar	Chicago, Ill.
Thermopaste		Plastic	Chicago, Ill.
Thermopaste Special		Plastic	Chicago, Ill.
*CHICAGO RETORT & FIRE BRICK COMPANY, 208 So. LaSalle St., Chicago, Illinois			
Anti-Flux Castable		Cast	Ottawa, Ill.
Sterling Castable		Cast	Ottawa, Ill.
Ajax	3rd	Fire Brick	Ottawa, Ill.
Ottawa	3rd	Fire Brick	Ottawa, Ill.
Sterling	2nd	Fire Brick	Ottawa, Ill.
Superior	1st	Fire Brick	Ottawa, Ill.
Anti-Flux	Super-Duty	Fire Brick (S. D.)	Ottawa, Ill.
Sidex	Super-Duty	Fire Brick (S. D.)	Ottawa, Ill.
.....		Fire Clay	Ottawa, Ill.
Anti-Flux CS-280		H. T. Mortar (Air-Set)	Ottawa, Ill.
Anti-Flux HS-320		H. T. Mortar (Heat-Set)	Ottawa, Ill.
Chicago Retort Recoat		H. T. Mortar	Ottawa, Ill.
CO-260 (Air-Set)		H. T. Mortar	Ottawa, Ill.
Bantam		Ins. F. B.	Ottawa, Ill.
Anti-Flux Plastic		Plastic	Ottawa, Ill.
CHRISTY FIRE BRICK COMPANY, St. Louis, Missouri			
Chrisco-Cast		Cast	St. Louis, Mo.
E-Z Cast		Cast	St. Louis, Mo.
Christy-Climax	1st	Fire Brick	St. Louis, Mo.
Christy-Diamond	1st	Fire Brick	St. Louis, Mo.
Christy-Gem	2nd	Fire Brick	St. Louis, Mo.
Christy-Spartan	2nd	Fire Brick	St. Louis, Mo.
Christy-Monarch	Super-Duty	Fire Brick (S. D.)	St. Louis, Mo.
Christy-Peerless	Super-Duty	Fire Brick (S. D.)	St. Louis, Mo.
Christy-Hilumna 50	50% Alumina	H-A Ref.	St. Louis, Mo.
Christy-Hilumna 60	60% Alumina	H-A Ref.	St. Louis, Mo.
Christy-Hilumna 70	70% Alumina	H-A Ref.	St. Louis, Mo.
Christy-Hilumna 80	80% Alumina	H-A Ref.	St. Louis, Mo.
Crefbond No. 3		H. T. Mortar	St. Louis, Mo.
Crefbond No. 500		H. T. Mortar	St. Louis, Mo.
Crefbond No. 505		H. T. Mortar	St. Louis, Mo.
Monocref		Plastic	St. Louis, Mo.
CLARK & SONS, N., 116 Natoma St., San Francisco, California			
NC&S	3rd	Fire Brick	Alameda, Cal.
.....		Fire Clay	Alameda, Cal.
CLEVELAND BUILDERS SUPPLY COMPANY, THE, 1276 West Third Street, Cleveland, Ohio			
Cleveco Castable		Cast	Cleveland, Ohio
Cleveco		H. T. Mortar	Cleveland, Ohio
Cleveco Plastic		Plastic	Cleveland, Ohio

BRAND	QUALITY	DIVISION	LOCATION
Carborundum Company, The, Continued			
Carbofrax No. 3 (Silicon Carbide)		H. T. Mortar	Keasbey, N. J.
Carbofrax No. 4 (Silicon Carbide)		H. T. Mortar	Keasbey, N. J.
Carbofrax No. 5 (Silicon Carbide)		H. T. Mortar	Keasbey, N. J.
Carbofrax No. 6 (Silicon Carbide)		H. T. Mortar	Keasbey, N. J.
Carbofrax No. 8 (Silicon Carbide)		H. T. Mortar	Keasbey, N. J.
Carbofrax No. 10 (Silicon Carbide)		H. T. Mortar	Keasbey, N. J.
Firefrax No. 1		H. T. Mortar	Keasbey, N. J.
Firefrax No. 2		H. T. Mortar	Keasbey, N. J.
Firefrax No. 7		H. T. Mortar	Keasbey, N. J.
Firefrax No. 9		H. T. Mortar	Keasbey, N. J.
Mullfrax No. 33 (Electric Furnace Mullite)		H. T. Mortar	Keasbey, N. J.
Mullfrax No. 34 (Electric Furnace Mullite)		H. T. Mortar	Keasbey, N. J.
Mullfrax No. 36 (Electric Furnace Mullite)		H. T. Mortar	Keasbey, N. J.
Mullfrax S No. 41 (Converted Kyanite)		H. T. Mortar	Keasbey, N. J.
Mullfrax S No. 42 (Converted Kyanite)		H. T. Mortar	Keasbey, N. J.
Mullfrax S No. 46 (Converted Kyanite)		H. T. Mortar	Keasbey, N. J.
Zircofrax No. 1 (Zircon)		H. T. Mortar	Keasbey, N. J.
Zircofrax No. 2 (Zircon)		H. T. Mortar	Keasbey, N. J.
Infrax (Refractory Insulating)		Ins. F. B.	Keasbey, N. J.
Alfrax B (Fused Alumina)		Misc. Ref.	Keasbey, N. J.
Alfrax B1 (Fused Alumina Insulating)		Misc. Ref.	Keasbey, N. J.
Alfrax K (Fused Alumina)		Misc. Ref.	Keasbey, N. J.
Carbo (Semi-Silicon Carbide)		Misc. Ref.	Keasbey, N. J.
Carbofrax (Silicon Carbide)		Misc. Ref.	Keasbey, N. J.
Firefrax		Misc. Ref.	Keasbey, N. J.
Mullfrax (Electric Furnace Mullite)		Misc. Ref.	Keasbey, N. J.
Mullfrax S (Converted Kyanite)		Misc. Ref.	Keasbey, N. J.
Silfrax 4 (Semi-Silicon Carbide)		Misc. Ref.	Keasbey, N. J.
Silfrax 7 (Semi-Silicon Carbide)		Misc. Ref.	Keasbey, N. J.
Silfrax 9 (Silicon Carbide)		Misc. Ref.	Keasbey, N. J.
Zircofrax (Zircon)		Misc. Ref.	Keasbey, N. J.
CARLYLE TILE COMPANY, THE, Ironton, Ohio			
Carlyle	2nd	Fire Brick	Coal Grove (Ironton), Ohio
CAROLINA REFRACTORIES COMPANY, Hartsville, South Carolina			
Careco Castable		Cast	Hartsville, S. C.
Careco Bond		H. T. Mortar	Hartsville, S. C.
Careco		Plastic	Hartsville, S. C.
Careco Baffling		Plastic	Hartsville, S. C.
CEDAR HEIGHTS CLAY COMPANY, Oak Hill, Ohio			
Cedar Heights		Fire Clay	Oak Hill, Ohio
*CHICAGO FIRE BRICK COMPANY, 1467 Elston Avenue, Chicago, Illinois			
Chicastic		Cast	Chicago, Ill.
Special Chicastic		Cast	Chicago, Ill.
Brikset 202		H. T. Mortar	Chicago, Ill.

BRAND	QUALITY	DIVISION	LOCATION
*BABCOCK & WILCOX COMPANY, THE, 85 Liberty Street, New York, New York			
B & W Baffle Mix		Cast	Augusta, Ga.
B & W Glass Tank Blocks		Glass	Augusta, Ga.
B & W High Temperature Mortar		H. T. Mortar	Augusta, Ga.
B & W Air-Set Mortar		H. T. Mortar	Augusta, Ga.
B & W Chrome Mortar		H. T. Mortar	Augusta, Ga.
B & W Patching Mortar		H. T. Mortar	Augusta, Ga.
B & W Smoothset Mortar		H. T. Mortar	Augusta, Ga.
B & W K-16		Ins. F. B.	Augusta, Ga.
B & W K-20		Ins. F. B.	Augusta, Ga.
B & W K-23		Ins. F. B.	Augusta, Ga.
B & W K-26		Ins. F. B.	Augusta, Ga.
B & W K-28		Ins. F. B.	Augusta, Ga.
B & W K-30		Ins. F. B.	Augusta, Ga.
B & W 80		Misc. Ref.	Augusta, Ga.
B & W Junior		Misc. Ref.	Augusta, Ga.
B & W Moldable		Plastic	Augusta, Ga.
B & W Plastic Chrome Ore		Plastic	Augusta, Ga.
*BETSON PLASTIC FIRE BRICK COMPANY, 1417 Jefferson Avenue, Buffalo, New York			
Betson's Castable		Cast	Lock Haven, Pa.
Betson's Hi-Heat Cement (Air-Set)		H. T. Mortar	Lock Haven, Pa.
Betson's Hi-Heat Cement (Heat-Set)		H. T. Mortar	Lock Haven, Pa.
Betson's Plastic Fire Brick (Dry)		Plastic	Lock Haven, Pa.
Betson's Plastic Fire Brick (Wet)		Plastic	Lock Haven, Pa.
BIBBY COAL SHALE & CLAY COMPANY, Littleton, Alabama			
Bibby		Fire Brick	Bibby, Ala.
Wire Cut		Fire Brick	Bibby, Ala.
.....		Fire Clay	Bibby, Ala.
BISSELL ENGINEERING & EQUIPMENT COMPANY, 5536 University Avenue, Indianapolis, Indiana			
Hydrobriks No. 1 (Coarse) (Dry)		H. T. Mortar	Indianapolis, Ind.
Hydrobriks No. 2 (Medium fine) (Dry)		H. T. Mortar	Indianapolis, Ind.
Hydrobriks No. 3 (Extra fine) (Dry)		H. T. Mortar	Indianapolis, Ind.
Hydrobriks No. 4 (Bonding Mortar)		H. T. Mortar	Indianapolis, Ind.
Beco-Brick		Plastic	Indianapolis, Ind.
*BOTFIELD REFRACTORIES COMPANY, Swanson & Clymer Sts., Philadelphia, Pennsylvania			
Adacast (High Temperature)		Cast	Philadelphia, Pa.
Adacast (Low Temperature)		Cast	Philadelphia, Pa.
Adachrome-Cast		Cast	Philadelphia, Pa.
Adamant	1st	Fire Brick	Frostburg, Md.
Adamant Special	1st	Fire Brick	Mexico, Mo.
Botfield	2nd	Fire Brick	Frostburg, Md. & Mexico, Mo.
Ada-Mull	Super-Duty	Fire Brick (S. D.)	Mexico, Mo.
Adachrome (Dry, Air-Set)		H. T. Mortar	Philadelphia, Pa.
Adachrome (Plastic, Air-Set)		H. T. Mortar	Philadelphia, Pa.
Adachrome-Cote (Air-Set)		H. T. Mortar	Philadelphia, Pa.
Adachrome-Cote (Dry, Air-Set)		H. T. Mortar	Philadelphia, Pa.
Ada-Furnace-Cote (Dry, Heat-Set)		H. T. Mortar	Philadelphia, Pa.