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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: BUCKEYE MICA PLANT

ALTERNATE NAMES:

MURCO WALL PRODUCTS PLANT

MARICOPA COUNTY MILS NUMBER: 679

LOCATION: TOWNSHIP 1 S RANGE 3 W SECTION 5 QUARTER NW

LATITUDE: N 33DEG 22MIN 37SEC LONGITUDE: W 112DEG 34MIN 51SEC

TOPO MAP NAME: VALENCIA - 7.5 MIN

CURRENT STATUS: UNKNOWN

COMMODITY:

MILL GRINDING

BIBLIOGRAPHY:

ADMMR BUCKEYE MICA PLANT FILE

BUCKEYE MICA

MARICOPA COUNTY

Metal Mining and Processing May 1964 p. 61

"U" File

MILS Sheet sequence number 0040130186

MILS Sheet sequence number 0040130050 (Mica Mill owned by Buckeye Mica Co.)



Planet

6/5/70



**SPECIFICATION GRADE MICA
FOR INDUSTRIAL USE**

PLANT
228 ARIZONA EASTERN AVENUE
P. O. BOX 416
BUCKEYE, ARIZONA 85326
TEL. (602) 386-4321
386-4451

WET GROUND MICA PRODUCTS

Buckeye Mica Company has recently completed a plant for producing wet ground mica. This mica is produced from our mica mined on our properties just south of Buckeye, Arizona.

PRODUCTION PROCESS

Our mica is initially dry ground then reground in a slurry state to fine particle size in an autogenous mill. From here it goes thru a sand washer to eliminate rock dust and grit. The mica is then sized thru floating cells and collected in flotation tanks. The wet slurry is then augured to stainless steel drying belts and the dry mica powder conveyed to the automatic bagger for packaging in valve bags.

There are five separate stations in the mica processing where any iron rust-causing particles are removed to assure a pure, finished product.

Typical Chemical Analysis

Silica	S_1O_2	38.38
Aluminum Oxide	Al_2O_3	46.01
Iron Oxide	F_2O_3	0.15
Calcium Oxide	CaO	1.89
Magnesium Oxide	MgO	2.39
Sodium Oxide	Na_2O	0.55
Potassium Oxide	K_2O	2.54
Titanium Oxide	T_1O_2	0.62
Fluorine	F	0.12
Combined Water	H_2O	6.65

Typical Physical Properties

Specific Gravity	2.93
Index of Refraction	1.59-1.60
pH	6.5-7.5
Slip	Excellent

Plant

STANDARD PRODUCTS

B — 75 — S

On 40 mesh None

Passing 100 mesh 99% Min.

Passing 325 mesh 75% Min.

Bulk Density 19.4# cu. ft. Max.

(Scott Vol. Meter)

B — 85 — S

On 40 mesh None

Passing 100 Mesh 99.5%

Passing 325 Mesh 85% Min.

Bulk Density 19.4# cu. ft. Max.

B — 325 — S

On 100 mesh Trace

Passing 325 Mesh 90% Min.

Bulk Density 19.4# cu. ft. Max.

PRICE LIST

July 1, 1969

Effective July 1, 1969 our prices per net ton of wet ground mica F.O.B. our Buckeye, Arizona plant are as follows:

F.O.B. BUCKEYE, ARIZONA

B-75-S \$ 88.00

B-85-S \$ 93.00

B-325-S \$120.00

Custom Grinds

Individually Negotiated

Cash discount of 1% will be allowed if payment is made by 15th of month following shipment, or 2% — 15 days after receipt of material.

Shipments made in 50# net - 50½# gross multi-ply paper bags.

Shipments made in truckload (min. 20 tons) or carload lots only.

Plant

9 men, had 23 2 yrs. of operation - bought out a family affair.

9 1/2 T/hr in day 2 T/hr wet/porcelain balls
\$10.00/T \$80-90/T

STANDARD PRODUCTS

wants a monthly prod of 1200 T.

is also selling gty sand screenings for \$10.30/T

depending on size. local foundry wants 2000 T/mo of floated material.

mines for .82¢/T, in O.P.

PRICE LIST

July 1, 1969

Effective July 1, 1969 our prices for the sale of our products under F.O.B. our Buckeye, Arizona plant are as follows:

F.O.B. BUCKEYE, ARIZONA

B-10-0	\$ 24.00
B-20-0	\$ 32.00
B-30-0	\$100.00

Excludes 1% interest

Excludes 1% interest

Our products are sold on a cash basis. Payment is made by 15th of month following shipment, or 25th if shipped before 15th of month.

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BUCKEYE MICA PLANT

MARICOPA COUNTY

KAP WR 4/4/86: Tim Whitney, Murco Wall Products, Buckeye (Buckeye Mica Mill (file) reported he is recording and filing the Freeze Tail #1-#2 Claims (Law Claims - file) Maricopa County. He believes they will be producing limestone from the deposit within three months. He was assisted by our reviewing his location notices prior to his filing them.

BUCKEYE MICA PLANT

MARICOPA COUNTY

KAP WR 4/8/83: A visit was made to Murco Wall Products in Buckeye. A separate report has been written.

KAP WR 4/15/83: Discussed Murco Wall Products need for ground or crude white filler with James Holamn of Inspiration Consolidated Copper Company. Inspiration will contact Tim Whitney at Murco. The occurrence is located near Bishow, California.

KAP WR 5/13/83: Called Tim Whitney of Murco Wall Products at the Buckeye Mica Plant and informed them of E. M. Industries interest in purchasing small quantities of high quality mica for processing into raw materials for cosmetic manufacture. See E. M. Industries yellow card for additional information.

KAP WR 7/1/83: In the company of William Kao of E. M. Industries, a visit was made to Murco Wall Products Buckeye Mica Mill Plant. Manager Tim Whitney reported that they are still purchasing the majority of their ground mica. E. M. Industries will obtain samples of Murco's pegmatite mica which is muscovite. The mica they are currently mining - sericite, will not work for E. M. Industries' needs. A number of samples will be collected and sent to Ohio.

KAP WR 11/30/84: Tim Whitney, Manager of Murco Wall Products in Buckeye reported they have started wet grinding sericite mica from the Buckeye Hills Mica Mine (f) in a ceramic lined ball mill at the Buckeye Mica Mill (f). Grinding is done with porcelain balls. Ground mica pulp passing a 325 mesh screen goes to settling tanks and then a centrifuge before being dried in a small screw conveyor using natural gas fired space heaters. The centrifuge discharges mica to the "dryer" at about 30 - 40% moisture and the drying is not very successful.

KAP WR 2/7/86: In the company of Ann Turney, Diane Bain, and Susie Kile a tour was made of the Murco Wall Products plant (data in the Buckeye Mica Mill (file), Maricopa County. The plant continues to produce wall board joint compound and tectured wall board compounds using purchased ground mica, ground limestone and a proprietary adhesive-extender-dryer mixture. They hope to develop their own source of ground limestone for whitening and filler.

In an interview with Mr. Smith Sr. at Buckeye Mica Co., it was learned the plant is likely to soon be sold. The potential buyer would continue operation and, therefore, the plant is continuing to produce for existing accounts. They are not presently interested in purchasing mica from independent miners. At a production level of 400 tons per day (well above present levels, but within the capability of the dry processing of the plant) Mr. Smith feels the Buckeye plant should net \$100,000 annually. A higher price product could be produced by wet methods, but the existing wet processing section of the plant would need considerable modification for proper operation. Drying is a major cost item when wet processing is used. A couple of potential solar drying systems are being investigated. KAP/ WR 9/2/76

WR KP 1/13/78 - Bob Languth allowed his option on the Buckeye Mica Company operation to lapse. The price has reportedly been reduced to \$100,000 but the price does not include the deposit south of Buckeye from which most production has come. 2/10/78 a. p.

KP WR 5/30/79 - Mr. Bud Murphy reported his firm Murco Wall Products, Inc. Phone: 817-626-1987, produces joint compound used in conjunction with wall board. He is considering the purchase of the Buckeye Mica Plant and was interested in the mica potential, both deposits and markets of Arizona. In addition to mica, the firm consumes bentonite, clay, limestone and feldspar. 6/27/79 a. p.

KP WR 6/5/79 - An unconfirmable report has been received that a Dry Wall Mechanics Company of Saticop, California has purchased the Buckeye Mica Plant. They want to produce 15 tons of mica per week. The contact individual was to have been a Denny Ford. 7/9/79 a. p.

KP 5/12/82 In the company of Nyal Niemuth visited the Buckeye Mica Plant in Buckeye. The plant is being operated by Murco Wall Products Inc. A separate report has been written.

KAP WR 4/8/83: A visit was made to the Murco Wall Products operation at the Buckeye Mica Plant (file). A separate report has been written.

KAP WR 7/18/80: A Texas firm reported to have purchased the old Buckeye Mica Company Plant in Buckeye. They are producing a wallboard joint compound at the plant from purchased materials. They are not presently mining mica. Their name is Murco Wall Products.

Called Mr. Smith, Buckeye Mica Company regarding purchase of property. He said it was for sale and would prefer the tentative buyer visiting the plant and quarry. A Mr. Pierson, Day Mines Company, Wallace, Idaho called regarding the Buckeye Mica. GW WR 6-11-73

Stopped at the Buckeye Mica plant where work has been resumed on the pegmatite mica crushing and screening plant. Mr. Smith said they were selling all the sericite mica they could grind. He also said that Day Mines Co. hadn't contacted him in regard to purchasing the plant. The young Mr. Smith said a German Company had purchased his 7 unpatented copper claims in the Hualapai Mountains southeast of Kingman, "they made an offer he couldn't refuse." Little or nothing has been done with the roasting of vermiculite. GW WR 6/20/73

Frank Cartwright, Phoenix, came in to inquire about vermiculite and perlite deposits. He particularly wanted to see the Solomon vermiculite deposit which I had visited several months ago. He was shown the material which had been taken from there which we tried to exfoliate with a match but it wouldn't. He was directed to Mr. Smith of the Buckeye Mica plant where an experimental furnace has been erected to treat the material from the Solomon deposit. Frank Cartwright called to say he had talked to Mr. Smith, manager of Buckeye Mica Company, regarding the Solomon vermiculite deposit and exfoliating furnace and was not impressed. GW WR 8/6,7/73

Went to the Buckeye Mica Company plant which was operating 2 shifts. Mr. Smith had gone to Phoenix I later learned. GW WR 11/5/73

Stopped at the Buckeye Mica plant but neither of the Smiths were there. GW WR 12/13/73

John Tyler reported that at the old Mica Mule claims, now called the Silver Mica claims, NE of his claims the owners are planning to ship mica to the Buckeye Mica Company. The operators have moved a house trailer onto the property. KAP WR 7/8/75

Tom Anderson, Phoenix mining engineer, came into inquire about Mr. Smith of the Buckeye Mica plant, saying he has a mica pegmatite in the Music Mt. district NE of Kingman. He said Mr. Smith had offered to accept 400 tons/month of scrap mica at \$40.00/ton. He was told that in my opinion Mr. Smith was a man of his word. GW WR 2/19/76

In the company of Gene Groves of Plastic Production Machine & Tool Co., visited the Buckeye Mica Co. plant in Buckeye. Mr. Smith, plant manager, explained that the Plant was to be shut down and sold or dismantled. The owner of the operation, R.N. Avery, no longer wants to be in the mica business. Further, the operation is reported to have been just barely breaking even. KAP WR 5/26/76

WR KP Week ending 5-13-77 - A telephone discussion was held with Dave Rabb regarding the determination of free silica & combined silica in Buckeye Mica's raw feed & processed product. A mineralogical analysis would provide details as to the mineral assemblage, & particle size, but is time consuming & costly.

*Some of
vermiculite
is*

Went to Buckeye Mica Company plant where Mr. Smith, manager, said a Mr. Crevasse of Phoenix had contracted with him to construct a small furnace to expand the vermiculite from the Solomon deposit. There had been no recent (last 6 months) excavation made on the deposit. Mr. Smith was questioned regarding perlite occurrences in the vicinity of Hassayampa. He said he has looked at a perlite deposit about 30 years ago south of Palo Verde and on the south side of the Gila River. Although the knoll of basalt was found in the location given no perlite deposit was in evidence. When on top of this knoll (Robbins Butte in Sec. 28, T1S R4W) another butte was noted some 304 miles west, therefore an attempt was made to examine it. However, the Gila River couldn't be crossed at this point but a rancher said there were no diggings on it. Then the basalt knob northwest of Hassayampa store was examined but no indication of a perlite deposit was found. Mr. Smith had said the perlite he saw was from a very small deposit and when heated it expanded only about three times its normal volume. GW WR 11/21/72

*Also
Vermiculite
minerals*

Active Mine List - Oct. 1972 - Empl. 6-8

Stopped at the Buckeye Mica plant which was running for a change. Mr. Smith, the manager, said he could dry grind about 1½ tons per hour to -16 mesh. This product is used mainly by roofing manufacturers. He said they could wet grind to -300 mesh about the same amount per hour. This material is used in paint. No vermiculite has been expanded as yet because the experimental furnace isn't finished. GW WR 12/20/72

*Plant
& mine*

Plant

Went to Buckeye Mica plant where Mr. Smith said they were still "grinding away", but if the Gila River doesn't fall soon they will be out of ore. No progress has been made in the past two months on processing of the vermiculite. GW WR 2/21/73

Plant

Stopped at the Buckeye Mica Company plant and although the older Smith was in Phoenix, the young Mr. Smith was really "up in arms" because the State Hiway Department has recently cut a new road right thru their ~~prospect~~ present working pit area. This was done without their previous knowledge and on a week-end when no one was at the pit. They have 2 patented and 55 unpatented claims in Sec. 20, 21 & 29, T1S, R3W. He said there was a rumor that Sec. 20 & 21, T1S, R3W was to be taken into the Green Belt. Mr. Avery, the owner of Buckeye Mica Company is upset and threatens to move the plant to Nevada where he claims working conditions are more favorable. GW - WR 4-20-73

Both

Visited with Hal Susie of Phoenix BLM regarding opening pit rights on unpatented claims; Hal said an open pit operation on an unpatented claim was legal and that Buckeye Mica had in his opinion grounds for a suit against the State Hiway Dept. for building a road arbitrarily thru their pit area. GW - WR 4-27-73

Mine

Dir. of Mining - August 1971 - 6-8 men.

Plant
Stopped at Buckeye Mica plant where Mr. Smith said they were again in production after installation of a centrifuge for faster de-watering of the wet ground mica. GW WR 12/16/71

Both
The Buckeye Mica Company sericite quarry and plant have operated continuously throughout the period. Some muscovite scrap from New Mexico has been purchased to bolster the specific gravity of some of their products. GW QR 9/71

Plant
Stopped at Buckeye Mica plant which was temporarily down for repairs. Mr. Smith said the new centrifuge was working first rate, but now they need larger drying capacity. It was suggested he investigate the possibility of installing a kiln and was referred to two people in Nevada who can show several old mercury kilns. Messrs. Netherlin, Orr and Davenport were out of town. GW WR 2/16/72

Plant + Mine
The Buckeye Mica Company continued to operate both the quarry and grinding plant with shut downs for the installation of a centrifuge for drying the wet-ground product. It is now anticipated a drying kiln will be necessary to finish the process. GW QR 2nd $\frac{1}{4}$ '71-'72, Oct.-Dec.

Plant
Went to the Buckeye Mica plant which was still down for repairs and rehabilitation of the electrical system. GW WR 4/19/72

Plant
Stoppd at the Buckeye Mica plant which is still down for repairs and new installations. Have put in a larger jaw crusher and are trying to recover scrap muscovite from pegmatite material. It appears that the management has retained a consultant who is making some plant changes that are somewhat resented by the local supervisors. GW WR 6/21/72

Plant
Went to Buckeye Mica plant where the primary crusher had burned out the pitman bearing closing the mill temporarily. The younger Mr. Smith said he and his father had several "good looking" Cu claims, 14 of which are about 20 miles SE of Kingman. He didn't know how to get to the Salome vermicultie deposit. GW WR 10/18/72

BUCKEYE MICA

MARICOPA COUNTY

Visited Buckeye Mica - enlarging and revamping taking place. FTJ WR 4-10-70

Visited Buckeye Mica Co., met Mr. McLeod, Mgr., who briefly explained his operation. He has 9 men handling 50-60 tons per day of sericitic schist from which they make both wet and dry ground mica. Buyers of this material vary from sheetrock manufacturers to tire and roofing plants. He is attempting to increase the grinding capacity to 1200 tons per month of finished product. A by-product is sharp quartz sand which has been sold in erratic amounts locally; however, Mr. McLeod says a local foundry has offered to accept 25,000 tons per year of floated sand of a particular size at a very favorable price. GW WR 6-5-70

Active Mine List May 1970 - 23 men - Dan McLeod

The Buckeye Mica Co. has 9 men handling 50-60 tons of sericite schist per day. They produce both wet and dry ground mica and quartz sand. GW QR 7-1-70

Met Mr. Smith, the new supervisor of the Buckeye Mica plant. He has 7 men cleaning up the plant & quarry after the recent high water damage. GW Oct. 1970

Visited Buckeye Mica plant. Mr. Smith said the mill was down temporarily for repairs but work at the quarry was in progress. GW WR 12-4-70

Active Mine List Oct. 1970 - 7 men - H. G. Smith

Went to Buckeye Mica Plant. Mr. Smith, supt., said their business was thriving and that he was in need of scrap mica (muscovite), for which they would pay \$32/T if the rock did not exceed 5%. GW WR 2-5-71

Went to Buckeye and visited with Mr. Smith, Jr. of Buckeye Mica Co. He says his father is in a Phoenix hospital for a double hernia operation, otherwise the operation is fine. A new "home-made" dryer has been installed which has improved production to between 20 and 30 tons per 8 hours. GW WR 4-12-71

The Buckeye Mica Plant is in full production, 20-30 tons per 8 hours with 8-10 men. A new dryer has aided in the crushing of muscovite scrap obtained from northern New Mexico. GW QR 4-8-71

Stopped at the Buckeye Mica plant. It was down for repairs and the installation of a new elevator. Neither of the Smiths were available. GW WR 6-7-71

Stopped at Buckeye Mica Co. Mr. Smith has recovered from the operations. He says they will install a dewatering centrifuge in the very near future which will increase their production of wet-ground mica. The plant & quarry have been down the past 2 months making arrangements for the new installation. GW WR 10/26/71

BUCKEYE MICA

MARICOPA COUNTY
Webb District

Plant
Visited Buckeye Mica Co. office. Met the manager and vice president. Mr. Dan McLeod, P.O. Box 416. 9 men working, installing another step in cleaning, using air separators at mine. KNG Oct. 1968

Active Mine List Oct. 1968 - 3 men

Visited Buckeye Mica Mill - Interviewed Mr. Dan McLeod, Vice President and General Manager. He informed me they had bought out H.G. Smith, Sr. - reorganized and set up an Arizona Corporation, The Buckeye Mica Company (H. G. Twitty, Attorney and Statutory Agent), 228 Arizona Eastern Avenue, P.O. Box 416, Buckeye, 85326, Phone 602-386-4321. They are enlarging and rebuilding the old mill. Have new stainless steel screening and separating equipment and are now milling material grades from 325 mesh up. They have new bagging equipment and new ore bins and a new warehouse is under construction. Have increased mine holdings and are open pitting some of the holdings. They have 20 employees and will try to get 10 more after the holidays. The Directors are all from the San Francisco area. GBG WR 12-6-68 - as of GBG QR 12-31-68 - 28 employees - 35 by 2-1-69

Phone - Buckeye Mica Co. Mr. McLeod said they had just completed new warehouses, rebuilding of mill and installed new milling equipment, stainless steel screens, bagging & automatic packaging - now completed. He said this is the only wet mica mill in the western states. GBG WR 1-10-69

Visited Buckeye Mica Mill. Talked with Dan McLeod, Vice President and General Manager. He said they are one of the few producers in the West that can mill both wet and dry Mica down to 325 mesh. He also stated that U.S. Gypsum Co., of Chicago are one of their major users, and have some of the same Directors in the Mica Co. At present they employ 39 and expect to have 50 employees within 90 days. They contract all mining, open pit method. GBG WR 2-7-69

Interviewed Dan McLeod at Mica Mill. They are wet grinding and cleaning about 45 tpd sericite and 250 tp/month of muscovite. They were having some trouble with the drying furnace, but not serious. FTJ WR 4-4-69

Active Mine List April 1969 - 16 men

During the year Buckeye Mica produced ground muscovite and sericite at the Buckeye plant. FTJ QR 7-15-69

Active Mine List Oct. 1969 - 23 men

Buckeye Mica produced mica at about the same rate as last quarter. FTJ QR 1-16-70

Both
Interviewed McLeod at Buckeye Mica Mill, he has about 4 miners mining Lemons property. Buckeye plant being enlarged. FTJ WR 2-6-70

BUCKEYE MICA

WEBB DISTRICT

MARICOPA COUNTY

Conference with H. G. Smith and son. 10/1/63

Both
Buckeye Mica is operating at normal capacity, the demand holding well. There are 4 sets of contract miners at the mine (2 each) and the supply of raw mica at the mill is satisfactory. H. G. Smith will leave shortly for California where he will supervise the erection of a mill. 4 men (including the Smiths) are working at the mill.

MEMO LAS 10/1/63

active mine last 10/3/12 men working

start Interview with H. G. Smith & Son of Buckeye Mica Co. 6/4/64

Both
Buckeye Mica is currently selling three sizes of Mica or 65, 80, and 325 mesh. Small orders amounting to 100 tons for 325 mesh are on hand. A surge stock pile of several hundred tons of ore is now built up at the mill. The market is steady. Smith stated that he figures on 20-25 per cent net so as to take care of contingencies and market shifts. The mine is currently operating under contracts with three sets of lessees. This method has not proven too good so the Smiths may take over the mining later on. The grade is sometimes not too satisfactory, it being difficult to obtain contractors with know-how as to selective mining. H. G. Smith said he had helped to build Dee Cantwell's Mica mill north of Morristown. Smith also emphasized that demands may vary considerably month by month. He plans to try out a new type of grinding machine in order to more cheaply produce the 325 mesh. Mica it seems is very abrasive on grinding machines. Smith said he would buy clean white Mica at \$32 to \$35 per ton, depending on its purity.

Lewis A. Smith 6/4/64

Mine
H.G. Smith said that the mica is being mined by 3 separate lessees: Robert Franklin, A. Elders and Arthur Duncan. The contract calls for delivery to the mill (4 mile haul). Currently sales are running near the 400 ton mark for a month.

Plant
Smith also is trying to market some agate nodules from Death Valley, California. These range from 2 inches up to 12 inches in diameter, averaging 7-8 inches. They consist of a central portion of white or gray agate surrounded by jasper (red to brown). The material is solid and cuts and polishes very well. The stock at Buckeye is 40 or more tons. Smith paid 6 cents per pound and is asking 9-10.

LAS - 12-8-65 - conference with H.G. Smith and son at the mill.

It was reported that H. G. Smith of Buckeye Mica Co. had sold out.

LAS WR 4/1/66

It was rumored that H. G. Smith, Buckeye Mica Co. was selling out - this rumor was untrue, but Smith said he would sell if the price was right.

LAS WR 4/8/66

BUCKEYE MICA

MARICOPA COUNTY
WEBB DISTRICT

Box 416

Visit and Conference with H. G. Smith & Son, Buckeye 10/6/66

Mine and Plant
According to Smith their monthly operations are normal (350-400 tons per month of 35, 65, 425 mesh dry mica). The mica is being mined by Alonzo Elder, Robert Franklin, and Austin Duncan on contracts at so much per ton. They are working on three different places, on beds of sericite mica. The Smiths have been marketing quartz-lined geodes from north of the Salton Sea in California. They do some lapidary work also.

LAS MEMO 10/6/66

Plant
Visit and Conference with H. G. Smith 12/7/66

Buckeye Mica was operating but was curtailed by lack of miners, temporarily. One was sick, one on vacation, and the other working. H. G. Smith was working at the mill. Smith was sure that the operation would soon be back to normal. The warehouse was well stocked, however, with ground mica.

MEMO LAS 12/7/66

Active Mine List April 1967 - 6 men

Conference with H. G. Smith and son 6/8/67 (At Buckeye).

The reserve of mica is being built up some now in preparation of the rainy season and hot weather. A fairly large bagged reserved is stored in the warehouse. The mica sizes are the same and demand has been consistent since February. The mica is darker gray than usual but grinds white. Smith said that it looked as though the demand would be good for the summer months.

MEMO LAS 6/8/67

Conference with H. G. Smith, Jr., Manager, Box 416, Buckeye. 10/3/67

This company is still mining and treating sericite mica at the rate of 20 tons per day, employing four men. At the present time they are doing no decorative rock work, as they consider that only a spare time activity, something at which to keep busy when the mica business is bad. At present they are able to sell their capacity mica output, 20 tons per day, nearly all in the Los Angeles area. They crush and screen the mica to whatever size demanded by customers, varying from -325 mesh, up to 16 mesh.

MEMO Robt. F. Playter 10/3/67

Active Mine List Nov. 1967 - 4 men

Active Mine List April 1968 - 3 men

John Lemons said Buckeye Mica has taken over his Maricopa Mica and are constructing a mill.

FTJ WR 10/4/68

BUCKEYE MICA

WEBB DISTRICT, MARICOPA CO.

Blank
Mr. Smith said that they were working 2 shifts at full capacity. Three grades as to size (65, 125, 325 mesh respectively) are now being shipped. However, the price for 325 mesh varies from \$45 to over \$100 per ton of dry ground mica. The price depends upon weight per unit volume, color, consistency, and purity. Smith's product does not meet these ultimates but so far he has received a very good price, since it is somewhat above average in all four specifications. Apparent mica specifications, like many nonmetallics are related to the use to which the product will be put. Smith ships the product in 100 pound bags. Because mica has a variety of uses the specifications can be quite involved.

Lewis A. Smith - Interview with H.G. Smith at Buckeye - 36-62.

Smith is running about 300 tons per month. He stated that he could use a pair of contract miners to extract the mica from beds in schist. The excessive floods in California caused such havoc with mine roads in the mica producing area, as a consequence many users in California have contacted Smith for mica to compensate for their short supply. Smith will continue to supply his regular customers until such time as he is sure they will not drop the temporary orders as soon as the California mines are reopened. His regular people have increased their orders to meet some of the emergency demands, and this has reduced Smith's warehouse stocks to practically nil. Three contract miners were mentioned.

Memo - Interview with H.G. Smith and Son. - 12-4-62 - LAS

Both
Buckeye Mica is now shipping 400-450 tons per month of ground mica. Most of this is used for insulation and roofing paper, and ranges from 20 to 65 mesh. A smaller quantity goes into 325 mesh material and is used in paint. Smith mainly ships to smaller users as the equipment required to accommodate larger users would cost \$125,000. 3 contractors are mining the mica.

Interview with H. G. Smith, Buckeye, 2-5-63

MEMO - LEWIS A. SMITH

Both
Conference with H. G. Smith

The Buckeye Mica Mill is operating at capacity for one shift. The mine has been supplying more mica of late than was the case in April. Three contract miners are now working at the mine.

Smith stated that he would pay \$30-32 per ton for scrap mica (cleaned).

MEMO LEWIS A. SMITH 6/4/63

BUCKEYE MICA

MARICOPA COUNTY

Both
H. G. Smith reported that the mica demand (paint) was excellent and he was working 4 men, besides his son and himself, to try and fill orders. The mica mining is still contracted. The main bottleneck appears to be how much mica can be delivered from the mine. One set of contractors is working now and it is hoped that a second set can be obtained soon.

Taken from Sept. 11, 1958 Report LAS

Both
A conference with H.G. Smith of Buckeye Mica, revealed that he is handling 250 to 300 tons of mica per month and that his product is almost exclusively being used in the roofing industry. This grade ranges from 18 to 24 mesh. He stated that the paint mica specifications now required 500 to 700 mesh and very low moisture. At the price offered he could not afford to produce paint mica. Four men are employed at the mine and two in the mill.

LEWIS A. SMITH - 1-15-1959

Both
A conference was held with H.G. Smith and his son. The plant now is producing over 300 tons of mica, ranging from 30 to 325 mesh. The market is good for these grades. Smith is desirous of getting better miners or contractors, so as to increase the output. He also wishes to get cleaner mill heads.

LEWIS A. SMITH - Sept. 6, 1959

Both
The Buckeye Mica is currently running 3 shifts and producing about 350 tons of ground mica per month. The market, according to H.G. Smith, is again picking up after the usual "Income Tax" lag in March and April.

LEWIS A. SMITH - Weekly Report - May 6, 1960

MINE: Buckeye Mica Plant

Date: April 6, 1983

COUNTY: Maricopa

Engineer: Ken A. Phillips

KAP

Files: Buckeye Mica Plant (file)

Buckeye Hills Mica (file)

Discussed non metallic minerals marketing and mica with Tim Whitney of Murco Wall Products at the Buckeye Mica Plant (file) in Buckeye.

Murco Wall Products purchased the plant and the Buckeye Hill Mica mine (file) about two years ago. They are using the plant to mix materials to produce wall joint compound. Mineral materials used in the product include ground high white calcite and ground mica. All of the calcite and most of the mica is purchased. A small amount of their mica requirements are obtained from the Buckeye Hills Mica mine which they own and operate.

Their current requirements are for about 125 tons of ground high white limestone (or marble) weekly and about 100 tons of ground mica weekly. Both products must be 100% minus 100 mesh and about 60% minus 325 mesh. Mr. Whitney explained they would like to produce their total limestone and mica requirements from their own mines. They don't have a limestone property.

They feel their Buckeye Hill Mica mine could fill their total mica requirements for a while. However, their current grinding circuit at the mica plant has a maximum capacity of about 200 pounds per hour. The grinding circuit consists of a tube mill run dry, a hammer mill and an air collision mill. They are investigating different and larger milling systems. Mining at the Buckeye Hill Mica mine is done intermittently as required to maintain a supply of feed to the mill.

Sericite mica is mined from lenses and pods in gneisses by open cut and trench methods. Individual lenses seldom exceed 20 feet by 200 feet and are typically mined to a maximum depth of 50 feet. After one has been exhausted another must be found and developed. Although difficult sounding, the mine area has produced mica for many, many years. The crude mica, which requires no beneficiation, is mined and delivered to the plant at a cost of less than \$20 per ton.

Mr. Whitney explained his firm is interested in acquiring a local source of high white calcite limestone or similar high white mineral filler. Although they would prefer a captive source, they would consider purchasing crude material once they have installed new grinding facilities.

Buckeye mica
Plant (file)

SUBJECT: Murco Wall Products Inc.
Date: May 12, 1982
Engineers: Ken A. Phillips and Nyal Miemuth

Plant visit on May 12, 1982 and field interview with Tim Whitney, General Manager.

→ Address: Murco Wall Products Inc.
228 Arizona Eastern
Buckeye, Arizona 85236
Phone (602) 386-5781

ACTIVE

Employees: six

Murco Wall Products purchased the Buckeye Mica Plant (Hugh Smith's old plant) and have partially remodeled it to mix and package wall board joint compound. They also pop polystyrene and grind it for acoustical ceiling material.

All raw materials are purchased at the present, ground calcium carbonate (limestone or marble) from Lucerne Valley, California (probably Furnance Creek formation) and mica from the Carolines at a shipping of \$100/ton.

They plan to start mining and grinding their own mica within the next two months. They plan to mine sericite mica from numerous cuts and trenches in the Buckeye Hills. Grinding is planned using a large (2+' diameter) rotating plate pulverizer. (Sort of a super large "Bico" lab pulverizer.)

Along with their purchase of the old Buckeye Mica plant were the Buckeye Mica claims and the Elder claims and mill.

Once they start grinding their own mica they may be interested in purchasing custom ore.

Both

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Buckeye Mica

Date September 5, 1961

District Webb District, Maricopa Co.

Engineer Lewis A. Smith

Subject: Mill visit & interview with H.G. Smith

The Buckeye mill and mine are active. The mill is running 1 shift with 5 men (including the Smiths) and is producing 35, 65 and 325 mesh. The mine employs 5 men periodically. The mica is a fine textured, silky, smooth, white sericite in schist form. According to Smith the veins, or beds, are currently several feet wide. Smith stated that at present the market is good. Shipping 350 ton more or less per month.

Active 2-1962 - 10 men working

Smith



STATE OF ARIZONA
DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA



November 3, 1959

MEMORANDUM

Buckeye Mica - Buckeye

Conference with H. G. Smith

The mill is now on a three-shift basis and is producing over 300 tons per month of mica ground to 150 mesh. This product is almost exclusively going into insulation industries and is bagged.

The mine is being worked by four miners under the Buckeye Mica Co and 2 contractors, or 6 men in all. The company is furnishing 14 tons per day and the contractors 2 tons. The mica is almost entirely of the sericite type. Two "veins" are being exploited, the major one being about 18 feet wide and is clean but for occasional small lenses of quartz or opalite.

According to Mr. Smith, it does not pay them to produce much 325 mesh material for paint filler. This industry prefers material ground to between 525 and 700 mesh. Smith stated that they could not make this pay.

LEWIS A. SMITH, Field Engineer.

Plant

15

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mill:

~~XXXX~~ Buckeye Mica

Date 7-1-58

District Buckeye District, Maricopa Co.

Engineer Lewis A. Smith

Subject: Study of Mill products

A conference with Mr. H.G. Smith (and his son), revealed that they have now more or less centralized on three products: -

- (1) 50 mesh (minus)
- (2) 100 mesh (minus)
- (3) 325 mesh (minus)

He stated that mining of mica in the Buckeye ores is a small operator job. Caterpillars are out because they cause too much dilution. The beds of sericite schist are usually narrow but clean and make a fine mill feed if properly extracted. Several good beds, in the past, were ruined by miners being to ambitious.

He said that he ran tests with electrostatic machines but the mica stuck to the tables because of static electricity and had to be cleaned off. A new airjet machine, now on the market, does a very good job of "blowing" the mica out leaving the waste behind. The Buckeye Mill is now doing dry grinding entirely.

Letter and copy of report mailed July 17, 1958

Both



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REGION IV

Statistics Branch
Federal Center
Denver, Colorado

July 27, 1953

Air Mail

Mr. Frank J. Tuck, Statistical Engineer
Arizona Department of Mineral Resources
Mineral Building, Fairgrounds
Phoenix, Arizona

B 3261

Dear Mr. Tuck:

On my visit to Phoenix and Tucson last October, several mine operators there told me that you were well informed on all mining activities in Arizona.

I just received a request from our Washington office to aid them in collecting statistics on mica production in 1952. Our Washington office has been unable to obtain figures showing production of the following companies:

✓ The Buckeye Mica Co.
H. G. Smith, Pres.
P. O. Box 416
Buckeye, Arizona

Merlo Mica Mining Co.
Kingman, Arizona

Year 1952
5,400,000[±] Scrap mica
worth \$7,500
78% used for Paint
Bal. to Roofing, Plaster, Paperizing
No operation 1952

Neither of the above companies has answered the questionnaires sent to them from the Washington office.

I was wondering if you could give me figures on their production. If you do not have exact figures, an estimate, based on your own knowledge of what they produced, would be very helpful. The figures desired for each operator are shown on the attached sheets.

Anything you can do to help in this matter will be appreciated, and we will gladly reciprocate anytime you may give us the opportunity.

Sincerely yours,

A. J. Martin

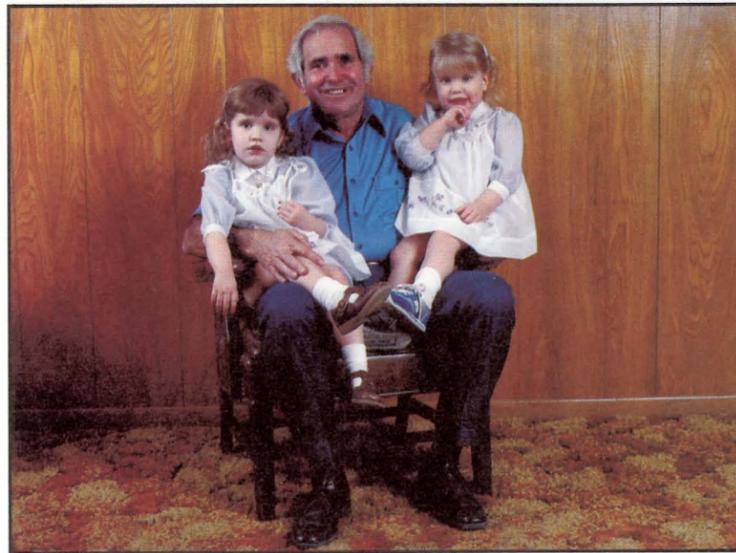
A. J. Martin, Chief
Statistics Branch, Region IV

Enclosures

5,400,000 ± 7,000,000
2500
Plant



MURCO
WALL PRODUCTS



Murco Wall Products, manufacturer and supplier of dry wall materials and paint products in the Southwest and Western United States, is a contemporary example of one family's success story.

A few years ago, in 1971, Bud Murphy was approaching middle age with a growing family and half a lifetime of experience in products for finishing dry walls. At that point, he and his family made the decision that many think about, but few accomplish: Bud Murphy and Family started their own business. Today, that business, Murco Wall Products, located in Fort Worth, Texas, is a tribute to the Murphy's and their loyal employees' experience, determination and hard work.

Murco's business is manufacturing a full line of superior tape joint compounds, textures, and paints. It's a unique and demanding business because the man who places the order, picks up the material and pays the invoice is also the one who applies the material. Thus, sales are directly related to the degree of quality and amount of service provided by the supplier. Murco Wall Products has only one sales department employee and relies mainly on repeated success with their customers and word-of-mouth advertising. Murco must be doing something right since the company has been growing steadily and is often sold out.

Bud Murphy has been involved with dry wall products for 35 years. Most of that time was spent with two large corporations, as plant superintendent managing their dry wall business and establishing a solid reputation with both suppliers and contractors. In 1971, the Murphy's set out on their own, with a lot of ambition and know-how, but little money.

Murco Wall Products is a family affair, with Mr. Murphy's wife and children sharing duties that might range from typing invoices, to operating batch mixers, to loading pallets. A third generation of Murphys' is following, though still too young to be active in the business.

With a business based heavily on personal service, Mr. Murphy has been reluctant to increase production and sales beyond the volume that he can personally oversee. However, he has recently started a new plant in Buckeye, Arizona. Murco may be the first and only company to be successful in offering franchises in "mud", as tape joint compounds are called. Murco licensees operate plants in Georgia, Missouri, Ohio and Puerto Rico. Under the franchise arrangement, Mr. Murphy provides advice and general know-how in setting up a manufacturing operation, as well as continuing help in tailoring dry wall compounds to conditions in the local area. In addition, he supplies the franchise with what he calls a "secret blend" proprietary base that is mixed with latex, water and fillers to make finished dry wall compounds. In addition, Murco is presently setting up its own mining operation for various raw materials, used in dry wall products that will be made available to Murco and its franchises around the country.

Murco Wall Products, with 60 employees, is at a business level Bud Murphy would like to maintain but not greatly increase. He will, however, be adding licensees on a selective basis. And who knows what might happen when the third generation of Murphys is ready to go to work.

Wall Compounds



MURCO M-100 M-707A M-1100 M-1200 Ready Mix All Purpose

50 Lb. Box - 50 per Pallet
 62 Lb. Pail - 36 per Pallet
 12.5 Lb. Pail - 4 per Carton

A factory premixed formulation used for embedding tape, finishing joints and texturing gypsum wallboard. It may also be used to repair cracks in plastered walls. Because it is factory mixed it eliminates problems normally associated with job mixed dry products. Murco All Purpose provides excellent slip and work-ability. It is available in heavy, medium and machine consistency.

MURCO M-105 Ready Mix Topping

50 Lb. Box - 50 per Pallet
 62 Lb. Pail - 36 per Pallet

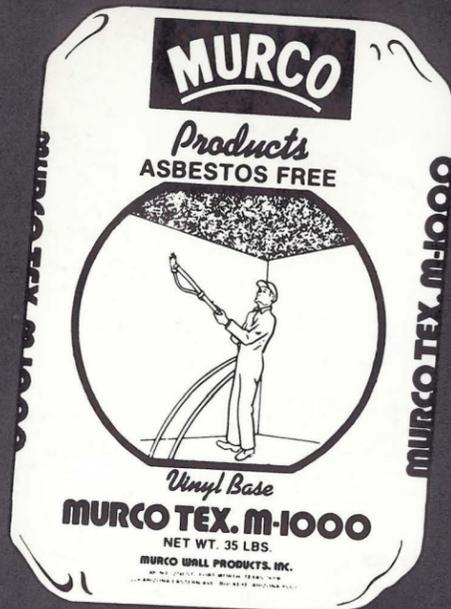
A factory premixed vinyl formulation used for filling and finishing drywall joints. It is excellent where deep fills and heavy hand texturing are required because of its exceptionally low shrinkage and cracking characteristics. It has superior working qualities designed to minimize mechanics trowel time. Murco Topping is ideal for the finishing coat because of its easy sanding factor. Available in either heavy or machine consistency.

MURCO M-600

50 Lb. Box - 50 per Pallet

A factory premixed formulation which gives various mechanical spray effects over gypsum wallboard. It may be applied in either a light orange-peel coat or splattered on and knocked down with a trowel for a plastered or stucco effect. Murco paint may be added to this product or applied later to give durability.





MURCO M-1000 Ceiling Texture

35 Lb. Bag - Fine - 50 per Pallet
 35 Lb. Bag - Medium - 50 per Pallet
 35 Lb. Bag - Coarse - 50 per Pallet
 32 Lb. Bag - Coarse - 50 per Pallet

A dry styrofoam aggregate product designed for maximum hide over gypsum wallboard, joints and nail heads. It also provides an excellent texture coverage over concrete ceilings. This decorative product is available in fine, medium and coarse aggregate sizes. Coverage is approximately 300' - 500' per bag.

MURCO X-47 Texture M-1100 Texture

50 Lb. Bag - 50 per Pallet

A product used to give various mechanical spray effects over gypsum wallboard. It may be applied in either a light orange-peel coat or splattered on and knocked down with a trowel for a plastered or stucco effect. Paint may be added to this product or applied later to give durability.

MURCO M-300 Triple T

25 Lb. Bag - 100 per Pallet

A dry powder all purpose joint compound. Designed for embedding drywall tape, finishing joints and texturing. It provides excellent bond in cold weather. This product may also be used for patching cracks in plastered walls.

MURCO M-150 M-250 M-700

1 1/2 Hr. Set 25 Lb. Bag - 100 per Pallet
 2 1/2 Hr. Set 25 Lb. Bag - 100 per Pallet
 7 Hr. Set 25 Lb. Bag - 100 per Pallet

A "setting" type joint compound used for embedding drywall tape and fasteners. It has extremely low shrinkage and cracking qualities because it chemically hardens rather than drying. Ideal for heavy fills. Surebond works well in cold, humid environments, allowing same day joint finishing. Superior bonding qualities is a feature of this product.

MURCO M-101 Spray Texture (Sidewall & Ceiling)

25 Lb. Bag - 100 per Pallet
 45 Lb. Bag - 50 per Pallet

A texture product used to give various mechanical or hand texture effects on gypsum wallboard. Has excellent whiteness for hide. May be spread on or used as a hand texture. Manufactured with aggregate.

All MURCO Joint Compounds will meet ATSM Specifications.

All MURCO Products are available on MURCO pallets which may be returned for credit.





MURCO M-100 M-707A M-1100 M-1200 Ready Mix All Purpose

62 Lb. Pail - 36 per Pallet
12.5 Lb. Pail - 4 per Carton

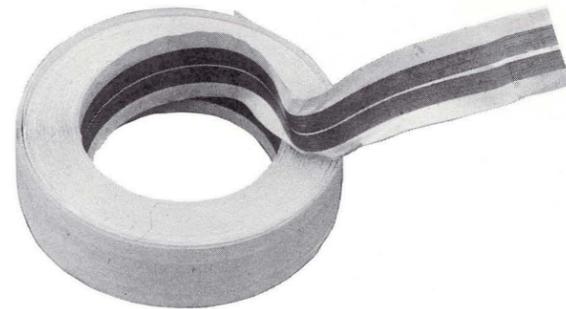
A factory premixed formulation used for embedding tape, finishing joints and texturing gypsum wallboard. It may also be used to repair cracks in plastered walls. Because it is factory mixed it eliminates problems normally associated with job mixed dry products. Murco All Purpose provides excellent slip and work-ability. It is available in heavy, medium and machine consistency.



Metal Reinforced Wallboard Tape

100' (100 Rolls per Carton)

This tape insures a perfect corner on any angle. Saves time and money. Can be used on any angle, bay window or drop ceiling. Applying this tape will complete assurance that every corner will be clean and sharp. Apply with any joint compound.



Latex Paints

Latex vinyl and acrylic finishes consist of a diffuse-ment of synthetic and pigment particles in water which dries quickly and practically odor-free. Latex paints dry into a "breathing" film that permits moisture to escape from beneath the surface, eliminating peeling, blistering and cracking. Latex does not oxidize like oil paint, therefore having better color retention. These paints require no special primer for interior application except when used over bare metal or wood. Exterior latex needs no primer when used on non-bleeding woods, but if used on bleeding-type woods (redwood, cedar, cypress) the surface should be primed first. Latex paints are recommended for interior areas where there is extensive wear, and for exterior sash and trim use. Murco manufactures a full line of paint — ask for our brochure.



Wallboard Tape

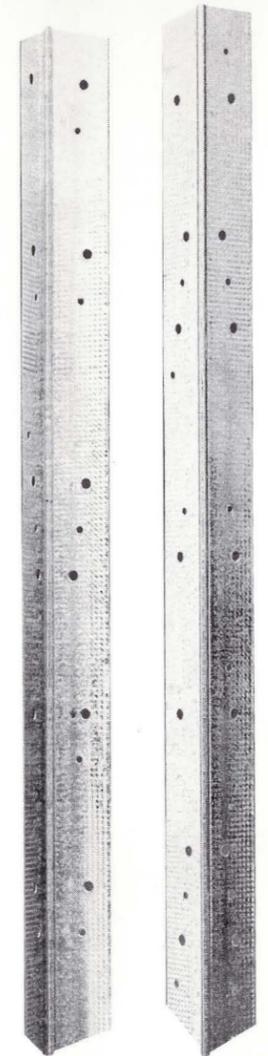
75' (45 Rolls per Carton)
250' (20 Rolls per Carton)
500' (12 Rolls per Carton)

Tape designed to form a strong bond over wallboard joints. This tape is well sanded for good bonding qualities. It is also creased for easy hand application.



Metal Corner Trim

Hot dipped, galvanized sheet metal with a special rust-retarding agent. Available in 6', 8', 9', and 10' lengths. Nail holes are pre-cut for convenience.



Masker

Dispenses paper and tape to the exact length needed. Feeds tape and paper directly to work surface while held in hand. Lightweight and compact. Quick, easy loading. Requires no oiling or maintenance. Uses 3/4" to 18" width paper and blades. Uses 3/4" to 2" width masking tape. Comes with convenient carrying holster.

Vinyl Tape

With pressure-sensitive adhesive backing. Selected for quick, self-stick hand application; saves installation time and fastener cost.



Hand Tools



1. Paint Trays

Available in two sizes — large and medium. Commercial grade metal paint roller trays are built for long durability and wear.

2. Paint Roller

Commercial grade plastic handle with screw threads for long handle attachment. Comes in various sizes. Shown with heavy-duty texture roller.

3. Broad Knife

Tempered Blue Steel Blade and shim for perfect wipedown on ceiling joints; blade and shim are attached with bolt and nut and easily replaced. Perfect grip aluminum handle.

4. Die Cut Sandpaper

First quality Silicon-Carbide paper, "D" weight backing, open coat to minimize "load-up". Pre-cut for hand sanders.

5. Hand Mixers

Exclusive — epoxy bonded handle and head will not come loose. Cad-plated head and ferrule will not rust and contaminate mixture.

6. Quick Mixer

Exclusive cadmium plated finish (not painted). Will not rust and contaminate mixture. Specially designed steel 3/8" hex shaft lets you mix without bending over; blades fold material in an inside-out pattern quickly with a minimum of air mixed in. Ideal for paint, joint cement, texture, etc. Use with 1/2" drill or larger; 500 RPM or slower.

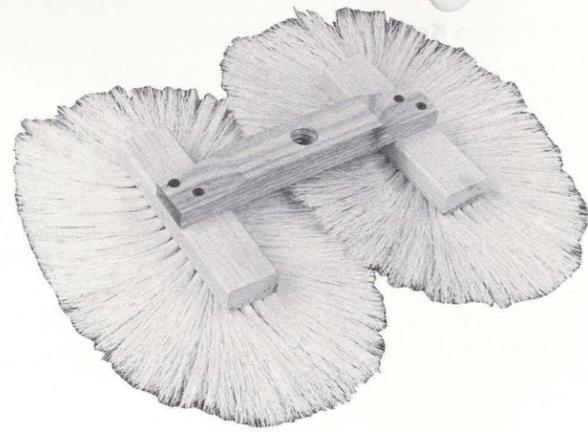
7. Hammer Head Knife

The hammer head knife has special quality steel, uniformly taper ground for proper flexibility. Designed and tested specifically for taping and finishing drywall joints and nail heads. Plastic handle with brass nailing head to set protruding drywall nails. Continuous on-the-job tests prove this knife to be superior.

Pictured on this page and the following pages are only a small portion of the complete line of commercial tools available from Murco Wall Products.

Texture Brushes

New double Texture Brush. 9" wide, used with wood pole. Tampico bristles. Covers a large area. Each brush 8" x 1 1/4" x 4" trim.



Wall Utility Saw

Sharp point and special teeth cut smooth and stay sharp longer. 6" blade is heavy-duty saw steel and will not bend or flex, easily penetrates the thickest wallboard. This special blade is epoxy bonded to the handle and will not pull out. Top grade hardwood handle is contoured for comfort. The original saw for drywall. Guaranteed first quality.

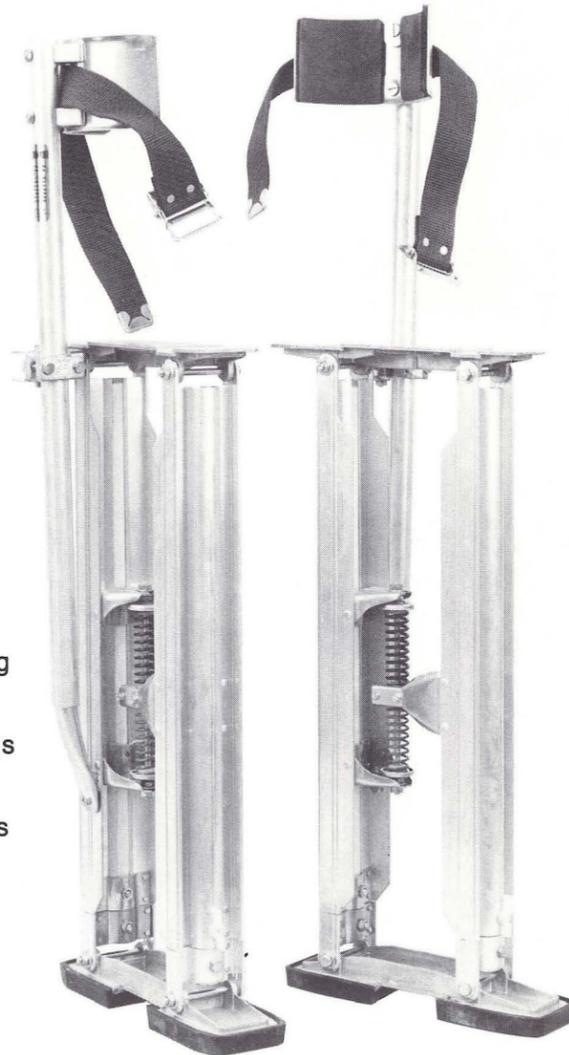


Pole Gun

Used with commercial spray rigs. Murco is the authorized sales and service center for most commercial lines of paint and texture equipment.

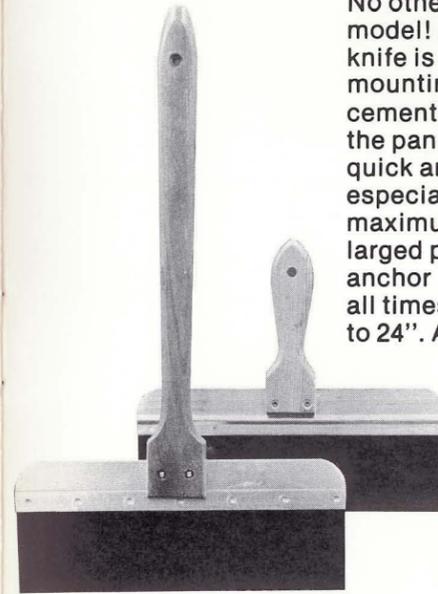
Stilts

Stilts eliminate the need for scaffolding on most drywall, veneer and plaster jobs. Their secret is the "heel-toe" walking action. They never tire your legs or feet because they flex as your legs and ankles flex. Made of safe, high strength aluminum alloy. Working parts are a cadmium plated steel for long life. Vulcanized rubber soles prevent slipping and will not come off. Upper foam rubber leg pads are comfortable on your calf. Available in fixed height and adjustable height models.



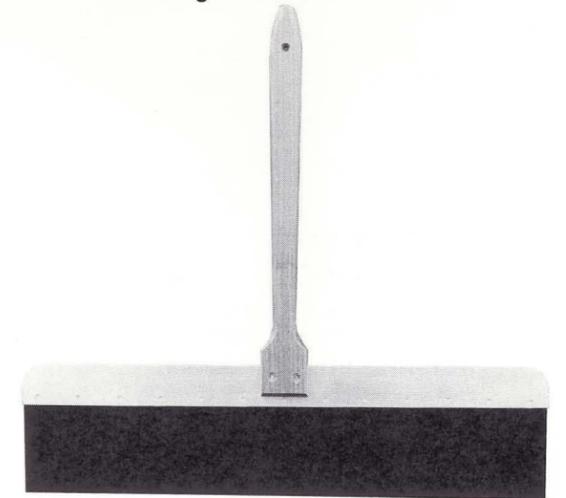
Wall Taping Knife

No other taping knife can compare to this model! An exclusive feature of the drywall knife is the smooth, ridgeless blade mounting. No ridges, no rivet heads. Joint cement cannot build up and flake back into the pan or add extra weight. Cleaning is quick and easy. A hardwood handle is especially tapered and contoured for maximum comfort; closely resembles an enlarged paint brush handle. Screws and bolts anchor handle to shank to insure tight fit at all times. Available in blade widths from 7" to 24". Also with 18" handle.



Long Handle Drywall Knife

Ideal tool for wall wipe-down or spray shield. Exclusive no-ridge design is 10% to 30% lighter, yet stronger than any other make. Cleaning is quick and easy. 18" handle bolts to shank. Has a blue spring steel blade for flexibility and long life.



Cornerbead Tool

This tool installs 1 1/8" or 1 1/4" corner-bead without nails. One blow from the rubber mallet "crimps" each side of head, locking it in place. Heavy duty blades bite into metal and wallboard for perfect corner. Normally needs only four hits to install 8' of bead. Durable spring-loaded plunger-head takes rugged use. Mallet is shown with tool, but not included.

Stainless Mud Pan

Heavy gauge .030" stainless steel. Has tapered ends and sides which reduce pan weight over conventional "square end" pans. Sheared sides clean knife quickly. Outlasts all other pans 4 to 1. Available in 10" and 12" sizes.



Plastic Mud Pan with Steel Blade

Styrene plastic pans are the lightest pans available, reinforced for strength with replaceable steel blade for cleaning knife. This pan will resist heat, cold and most chemicals. Available in 10" and 12" sizes.

1. Automatic Taper

Holds enough compound to apply 60 feet of tape before refilling. Applies tape and compound at the same time to all drywall joints — flats and angles. Incorporates a tape advance, cutting system and corner creasing mechanism.

2. Loading Pump

Fills automatic taper and all finishing tools with compound.

3. Nail Spotter

2 1/2" and 3". Applies compound and finishes nail and screw dimples.

4. Corner Roller

Imbeds tape and forces out excess compound in corners in preparation for the glazing operation.

5. Angle Head

2" and 3". Glazes excess compound left after the corner rolling operation. Final finishes all corner joints.

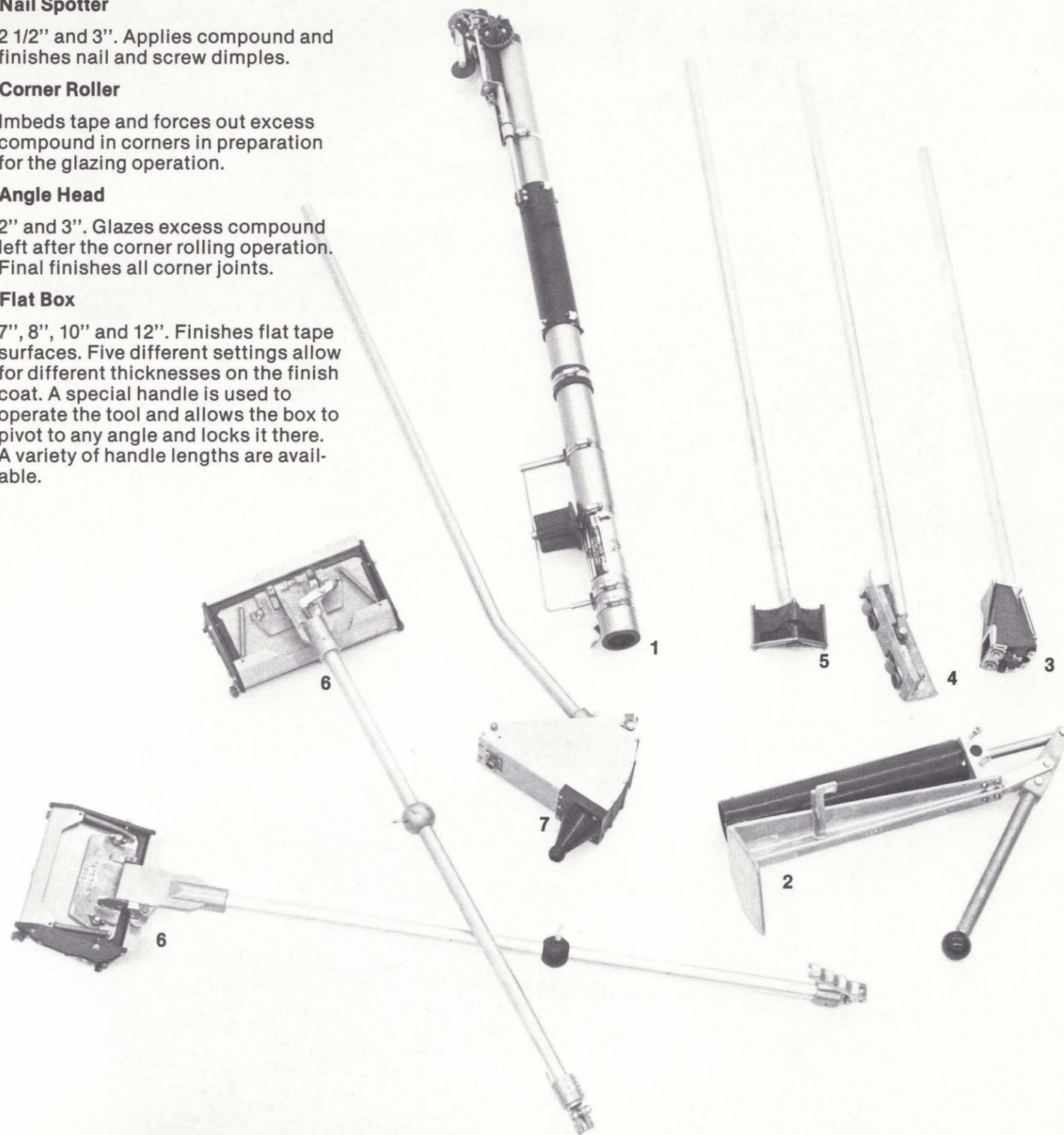
6. Flat Box

7", 8", 10" and 12". Finishes flat tape surfaces. Five different settings allow for different thicknesses on the finish coat. A special handle is used to operate the tool and allows the box to pivot to any angle and locks it there. A variety of handle lengths are available.

7. Corner Box

5" and 8". Feeds compound through the angle head.

Manufactured by Hawk Industries, distributed by Murco Wall Products, an authorized state sales and service center.



Murco Wall Products, Inc.
300 N.E. 21st Street
Fort Worth, Texas 76106
817-626-1987