

PLAINTIFF'S
EXHIBIT

GP-645 Q Q

CHART #1 Physical Properties — Bestwall Industrial Plasters

	Testing Consistency (TC)	*Final Gillmore Set at TC	Pouring Consistency (PC)	*Initial Gillmore Set at PC	*Final Gillmore Set at PC	Setting Expansion Average at PC	†Wet Compressive Strength After 1 Hr. (PC)	†Dry Compressive Strength at (PC)	†Surface Hardness at TC	†Surface Hardness at PC	Screen 200 M	Screen 325 M	Alkalinity	Color			
Small Mold-Cast	47	35 min.	45 min.	70	48 min.	60 min.	.180%	1,700	3,500	1,050	2,400	55	23	85.0	65.0	Neutral	White
Small Mold-Low Ex	47	35 min.	45 min.	70	48 min.	60 min.	.090%	1,700	3,500	1,050	2,400	55	23	85.0	65.0	Neutral	White
Stucco B	47	36 min.	46 min.	70	50 min.	63 min.	.180%	1,700	3,500	1,000	2,300	65	30	85.0	65.0	Neutral	White
Stucco Super B	45	36 min.	46 min.	65	50 min.	63 min.	.183%	2,250	4,600	1,100	2,300	65	33	85.0	72.4	Neutral	White
Plaster B	47	35 min.	45 min.	70	50 min.	63 min.	.180%	1,650	3,400	1,000	2,300	55	23	85.0	65.0	Neutral	White
K-58	44	40 min.	50 min.	65	54 min.	68 min.	.180%	2,100	4,500	1,200	2,800	60	30	85.0	67.0	Neutral	White
K-59	44	40 min.	50 min.	65	54 min.	68 min.	.190%	2,100	4,500	1,200	2,300	60	30	85.0	67.0	Neutral	White
K-60	44	40 min.	50 min.	65	54 min.	68 min.	100%	2,100	4,500	1,200	2,300	60	30	85.0	67.0	Neutral	White
K-61	45	24 min.	33 min.	63	35 min.	47 min.	200%	2,400	6,500	1,200	2,800	60	30	93.0	76.0	Neutral	White
K-62	40	26 min.	35 min.	60	38 min.	50 min.	.180%	2,500	7,000	1,300	3,300	80	34	93.5	76.5	Neutral	Blue**
Dental Lab	47	5 min.	7 min.	70	9 min.	13 min.	.175%	1,700	3,500	1,000	2,300	55	23	85.0	65.0	Neutral	White
Dental Imp.	46	3 min.	5 min.	70	6 min.	10 min.	.175%	1,700	3,500	1,000	2,300	55	23	85.0	65.0	Neutral	White
Dental Imp. of Inc.	47	2 min.	3 min.	70	4 min.	6 min.	.165%	1,700	3,500	1,000	2,300	55	23	88.0	73.0	Neutral	White
K-5	22	10 min.	18 min.	33	20 min.	30 min.	.320%	6,400	13,500	4,000	9,500	205	115	92.5	78.0	Neutral	White
K-6	25	15 min.	23 min.	40	25 min.	35 min.	.322%	5,900	13,000	3,400	7,000	190	100	99.9	96.5	Neutral	White
K-7	22	50 min.	60 min.	33	70 min.	80 min.	.320%	6,400	13,500	4,000	9,500	205	115	92.5	78.0	Neutral	White
K-8	29	28 min.	36 min.	44	40 min.	50 min.	.300%	3,500	8,500	1,600	5,000	105	55	89.0	72.0	Neutral	White
K-11	22	23 min.	30 min.	33	32 min.	45 min.	.080%	6,100	11,400	3,400	6,400	190	100	92.5	78.0	Neutral	White
K-12	25	24 min.	28 min.	38	33 min.	37 min.	.090%	5,700	10,400	2,900	5,700	175	90	99.9	96.2	Neutral	White
K-12F	24	20 min.	28 min.	36	30 min.	43 min.	.035%	5,900	10,500	2,500	6,000	175	95	92.5	78.0	Alk.	Gr. Wh.
K-13	27	18 min.	24 min.	40	35 min.	50 min.	.040%	5,300	10,000	2,200	5,800	150	70	99.5	96.0	Alk.	Gr. Wh.
K-13F	28	20 min.	28 min.	40	32 min.	45 min.	.042%	4,200	8,800	2,200	4,300	150	75	91.4	76.0	Alk.	Gr. Wh.
K-14	30	23 min.	27 min.	43	40 min.	50 min.	.040%	4,100	8,500	2,000	4,200	130	55	98.4	92.6	Alk.	Gr. Wh.
K-15	36	24 min.	37 min.	51	36 min.	40 min.	.048%	2,300	6,000	1,100	3,000	85	35	86.0	72.1	Alk.	Gr. Wh.
K-15F	29	16 min.	20 min.	44	27 min.	35 min.	.100%	4,300	10,200	2,000	5,400	140	60	89.0	73.0	Neutral	Bl. Buff
K-16	31	16 min.	20 min.	46	27 min.	35 min.	.095%	4,000	9,000	1,800	4,500	130	55	93.4	83.8	Neutral	Bl. Buff
K-17	30	20 min.	22 min.	44	26 min.	34 min.	.052%	5,300	10,800	2,800	6,200	115	65	88.5	73.0	Alk.	Gr. Wt.
K-17F	32	20 min.	25 min.	46	30 min.	36 min.	.050%	3,500	9,500	2,700	5,500	115	60	93.8	84.6	Alk.	Gr. Wt.
K-20	28	20 min.	28 min.	42	31 min.	43 min.	.110%	2,800	7,500	1,000	2,400	155	70	92.5	78.0	Neutral	White
K-25	29	21 min.	24 min.	44	30 min.	34 min.	.045%	4,600	9,600	2,000	4,200	140	65	89.0	72.0	Alk.	Gray
Densiflor	30	4 1/2 hrs.	5-8 hrs.	45	7-10 hrs.	7 1/2-12 hrs.	.064%	4,700	7,500	2,400	4,500	115	50	90.0	69.22	Alk.	Gray
Cert-flor	45	4-6 hrs.	5-7 hrs.	30	22 min.	30 min.	.080%	1,100	2,400	—	—	25	—	145	98.3	Alk.	Gray
Dens-rock	—	—	—	40	as req'd	as req'd	.180%	—	—	4,300	9,000	—	—	87	—	Alk.	White
Cert-rock No. 312	55	26 min.	35 min.	110 (thin pour)	48 min.	—	.100%	400	1,000	70	300	9	3	88.6	72.4	Neutral	Gray
Break-away	68	24 min.	34 min.	120	37 min.	—	.110%	600	—	125	300	12	3	67.8	49.0	Neutral	Buff
Metal Casting																	White

*Average setting times are shown on this chart. Setting times can be adjusted to suit customers requirements.

†Monotrom Hardness Number — Kilogram load required for 0.01" penetration of 10mm steel ball.

**White in bag—blue in cast.

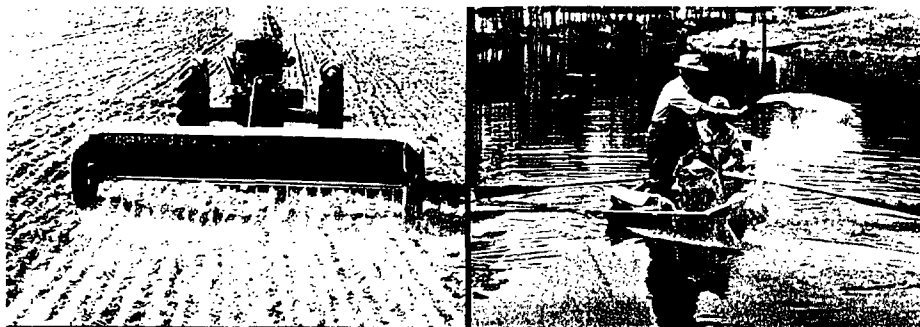
†Compressive strengths are shown in pounds per square inch.

CHART #2 Physical Properties—Competitive Industrial Plasters

	Testing Consistency (TC)	*Initial Gillmore Set at TC	*Final Gillmore Set at TC	Pouring Consistency (PC)	*Initial Gillmore Set at PC	*Final Gillmore Set at PC	Setting Expansion Average at PC	†Wet Compressive Strength 1 Hr. After Fin. Set (TC)	†Dry Compressive Strength at (TC)	†Wet Compressive Strength 1 Hr. After Fin. Set (PC)	†Dry Compressive Strength at (PC)	†Surface Hardness at TC	†Surface Hardness at PC	†Thru 200 M Screen	†Thru 325 M Screen	Alkalinity	Color
Regular Pottery	48	32 min.	42 min.	70	45 min.	57 min.	.180%	1,800	3,500	1,000	2,200	55	22	87.4	79.5	Neutral	White
No 1 Pottery	42	32 min.	43 min.	62	45 min.	59 min.	.200%	2,200	5,000	1,100	2,900	65	32	92.3	83.0	Neutral	White
Puritan Pottery	40	28 min.	38 min.	60	42 min.	54 min.	.198%	2,800	6,000	1,300	3,000	90	35	91.9	82.0	Neutral	Wh Gr
White Art	45	24 min.	32 min.	66	34 min.	45 min.	.200%	2,100	4,500	1,100	2,700	65	30	87.4	79.4	Neutral	White
No 1 Casting	42	28 min.	39 min.	62	40 min.	53 min.	.200%	2,300	5,000	1,150	2,900	70	35	88.0	80.8	Neutral	White
No 1 Molding	45	31 min.	40 min.	66	44 min.	52 min.	.195%	2,200	4,000	1,100	2,500	60	30	91.4	82.6	Neutral	White
Regular Dental	45	5 min.	7 min.	66	8 min.	11 min.	.195%	2,200	4,000	1,100	2,500	60	30	88.1	76.0	Neutral	White
X 21 Dental	22½	19 min.	23 min.	35	32 min.	37 min.	.075%	6,000	13,000	3,500	7,500	224	81	91.2	68.6	Neutral	White
Industrial Hydrocal	27½	16 min.	23 min.	43	31 min.	41 min.	.328%	5,000	11,500	2,200	5,400	150	60	90.9	85.1	Neutral	White
A 11 Hydrocal	28	10 min.	15 min.	44	24 min.	31 min.	.049%	4,800	10,000	2,300	5,200	160	60	89.1	83.9	Alk.	Gr Wh
B-11 Hydrocal	28	11 min.	16 min.	45½	32 min.	38 min.	.065%	5,000	10,500	2,100	4,400	170	55	98.2	93.6	Alk	Gr. Wh
High Exp. Hydrocal	30	34 min.	42 min.	52	45 min.	56 min.	.120%	1,900	4,500	800	2,200	90	35	90.8	78.4	Neutral	White
Low Exp. Hydrocal	21½	17 min.	22 min.	33	29 min.	39 min.	.350%	5,800	14,500	3,400	8,700	210	105	92.1	73.7	Neutral	White
Hydrostone	23	18 min.	25 min.	28	29 min.	36 min.	.113%	6,600	12,500	5,300	10,500	220	145	91.4	84.8	Alk	White
Ultural AX 30	26	19 min.	26 min.	40	33 min.	44 min.	.051%	5,000	10,700	2,500	5,700	160	65	97.6	88.6	Alk.	Gr. Gr
Breakaway	69	24 min.	36 min.	110 (thin pour)	40 min.	—	.110%	215	—	70	325	20	5	88.8	74.4	Neutral	Pink
Metal Casting	60	25 min.	32 min.	110	35 min.	—	.120%	700	—	190	500	20	6	71.4	60.8	Neutral	White
Ceramic				30	28 min.	32 min.	.124%	—	—	—	8,300	—	140	96.0	88.9	Alk.	White

*Average setting times are shown on this chart. Samples are generally older than samples of competitive Certain-feed products listed.
 †Also different customers of competition may have different setting time requirements.

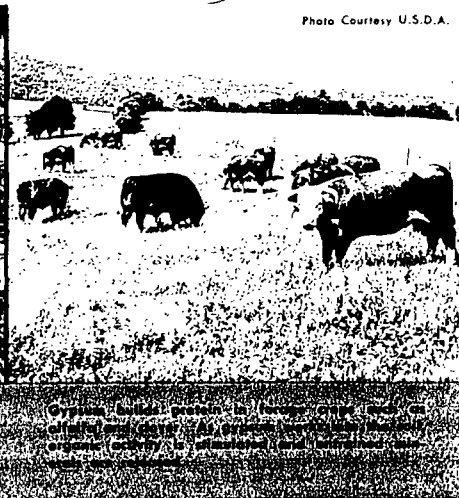
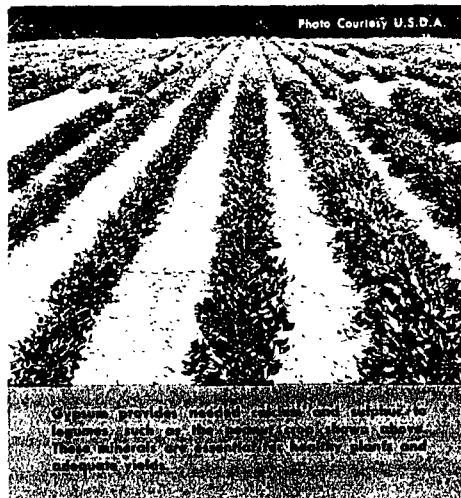
†Compressive strengths are shown in pounds per square inch.
 ††Monotest Hardness Number — Kilogram load required for 0.01" penetration of 10mm steel ball.



GYPSUM'S BOOSTER ACTION ENRICHES SOIL . . . NATURALLY



SGP 0027347



BESTWALL AGRICULTURAL GYPSUM . . . FOR MORE PROFITABLE FARMING

Agricultural gypsum plays a substantial role in the Farming Industry. Modern growers know that gypsum flocculates soil and provides needed minerals. As a soil conditioner, BESTWALL Agricultural Gypsum, processed from pure gypsum rock, breaks up hard soils to allow proper aeration and water penetration. Aeration improves seed germination and rooting; thus, increasing overall crop yields. Greater water absorption prevents wet spots and root rot. As a fertilizer, BESTWALL Agricultural Gypsum's high solubility makes its nutrients readily available to the plants. Thus, by improving the soil's tilth and giving nutrients to plants, BESTWALL Agricultural Gypsum helps generate greater yields of high quality crops.

CONDITIONS POOR SOIL

Surface crusted soils need gypsum's booster action to make them loose and porous. Applied any time of the year, highly soluble gypsum works into the soil and stimulates microbiological activity. Light soils gain body, while heavy soils are lightened. BESTWALL Agricultural Gypsum may be broadcast and tilled in at the rate of 1 ton every two acres.

FERTILIZES CROPS

Tests indicate that many plants, particularly of the forage and legume types, respond quickly to gypsum. BESTWALL Agricultural Gypsum boosts plant protein and chlorophyll production and helps develop stronger roots by supplying plants with quickly available calcium and sulphur in a non-alkaline form. Gypsum, because of its solubility, increases the effectiveness of phosphate fertilizers. Crops, such as alfalfa, clover, peas, beans and peanuts require large amounts of calcium and sulphur to insure maximum yields.

RETARDS NITROGEN LOSS

BESTWALL Agricultural Gypsum retards nitrogen losses in manure. A sprinkling of gypsum over manure and in dairy barn gutters will result in an appreciable reduction in nitrogen loss. In the soil, gypsum helps plant assimilation of water-borne and air borne nitrogen.

INCREASES MUSHROOM CROPS

Gypsum stimulates micro-organisms, essential in mushroom culture. BESTWALL

Agricultural Gypsum, when evenly dispersed throughout the compost, insures proper aeration for good growth of mushroom mycelia, conditions the compost and accelerates the composting period. Apply BESTWALL Agricultural Gypsum at a rate of 30 to 40 lbs. per ton of manure at the beginning of composting and 15 lbs. per ton at the last turn of the compost.

HEALTHIER LIVESTOCK

BESTWALL Agricultural Gypsum helps keep livestock buildings clean and dry. When sprinkled over manure, gypsum controls harmful ammonia fumes. Gypsum has no caustic effects on the feet of farm animals and is safe to use in drying up barn and stable floors.

CLEARS MUDDY PONDS

BESTWALL Agricultural Gypsum is an economical means of clearing muddy ponds. It agglomerates suspended clay, so permitting it to settle out. Application from a rowboat is recommended to insure even distribution throughout a pond.

To calculate the amount of gypsum necessary for clearing a pond, locate the deepest spot, estimate the average depth as being $\frac{1}{2}$ of the greatest depth. Multiply the average depth by the area in sq. ft. This will give the amount of water in cubic feet. Most ponds require 12 lbs. of gypsum per 1000 cu. ft. for clearing. If clay particles do not settle out, add an additional 4 lbs. per 1000 cu. ft.

GYPSUM PRODUCTS MANUAL

Chapter V

A fine ground pure gypsum is used by many yeast manufacturers as a yeast accelerator or food as it very notably speeds up the action of the yeast in baking. Thus, there is a small amount of gypsum in the bread and yeast that we consume.

Black board crayons or chalk are sometimes made of a finely ground uncalcined white gypsum rock. A binder and sometimes a pigment for coloring purposes are added and the mixture molded into the required shape under pressure. Most crayons, however, are made from calcined gypsum which is mixed with water and cast into a mold, the setting of the plaster giving the required hardness and strength.

Rock gypsum is used as a flux in reducing lead ores and in the smelting of some of the nickel ores in Canada where it furnishes the sulphur necessary to form a nickel matte and to slag the siliceous ore.