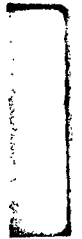


PLAINTIFF'S EXHIBIT

GP-693



SIGURD FORMULA #943
ASBESTOS CONTAINING PRODUCTS

SGP 0016935

in ill office copy

February 10, 1969
NEW FORMULA

SIGURD, UTAH PLANT FORMULA

BESTEX TEXTURE NO. S-943 - BESTEX D
FOR SPRAY APPLICATION

DEFINITION OF PRODUCT - Bestex D is a dry powdered product containing coarse aggregate (vermiculite) for mixing with water and spraying to produce simulated accoustic type finishes on gypsum wallboard ceilings.

FORMULA*

Part A - PRE-MIX

<u>Raw Material</u>	<u>Function</u>	<u>R.M. Spec.#</u>	<u>Percent</u>	<u>lbs./Batch</u>
Polyvinyl Alcohol	Adhesive	162	1.0	5.0
Starch (Staramic 330)	Adhesive	192	4.0	20.0
Titanox AWD	Pigment	131	3.0	15.0
Zeolex 23A	Pigment Extender	197	8.0	40.0
Natrosol	Thickner	170	0.6	1.25
Cellufloc	Fiber Filler	195	2.5	12.5
Vanicide 512	Fungicide	126	0.15	.75
Defoamer Mill	Antifoaming Agent	196	0.05	.25
Gypsum Land Plaster	Filler Vehicle	-	80.7	405.25
			100.00	500.00

Part B - FINISHED PRODUCT

<u>Raw Material</u>	<u>Source</u>	<u>Percent</u>	<u>Lbs./Batch</u>
Pre-Mix (Part A)	Sigurd Plant	85	500
South African Vermiculite	W. R. Grace & Co.	15	88 (5 bags)
		100	588

ACTUAL FINISHED PRODUCT RAW MATERIAL PERCENTAGES

<u>Raw Material</u>	<u>Lbs./Ton</u>	<u>Percent</u>
Polyvinyl Alcohol	17.0	0.85
Staramic Starch 330	68.0	3.4
Titanox AWD	51.0	2.55
Zeolex 23A	136.0	6.8
Natrosol	10.2	0.510
Cellufloc	42.5	2.125
Defoamer Mill	0.85	.0425
Vanicide 512	2.55	0.1275
Gypsum Land Plaster	1371.9	68.595
S. A. Vermiculite	300.0	15.0000
	2000.0	100.0000

TESTING PROCEDURE: Refer to Testing Procedure for Bestex A
(For Part-A-Pre-Mix)

EDO'N:kgc

SGP 0016936

SIGURD FORMULA # 943
ASBESTOS CONTAINING PRODUCTS

in ill office copy

February 10, 1969
NEW FORMULA

SIGURD, UTAH PLANT FORMULA

BESTEX TEXTURE NO. S-943 - BESTEX D
FOR SPRAY APPLICATION

DEFINITION OF PRODUCT - Bestex D is a dry powdered product containing coarse aggregate (vermiculite) for mixing with water and spraying to produce simulated acoustic type finishes on gypsum wallboard ceilings.

FORMULA*

Part A - PRE-MIX

<u>Raw Material</u>	<u>Function</u>	<u>R.M. Spec.#</u>	<u>Percent</u>	<u>lbs./Batch</u>
Polyvinyl Alcohol	Adhesive	162	1.0	5.0
Starch (Staramic 330)	Adhesive	192	4.0	20.0
Titanox AWD	Pigment	131	3.0	15.0
Zeolex 23A	Pigment Extender	197	8.0	40.0
Natrosol	Thickner	170	0.6	1.25
Cellufloc	Fiber Filler	195	2.5	12.5
Vanicide 51Z	Fungicide	126	0.15	.75
Defoamer Mill	Antifoaming Agent	196	0.05	.25
Gypsum Land Plaster	Filler Vehicle	-	80.7	405.25
			100.00	500.00

Part B - FINISHED PRODUCT

<u>Raw Material</u>	<u>Source</u>	<u>Percent</u>	<u>Lbs./Batch</u>
Pre-Mix (Part A)	Sigurd Plant	85	500
South African Vermiculite	W. R. Grace & Co.	15	88 (5 bags)
		100	588

ACTUAL FINISHED PRODUCT RAW MATERIAL PERCENTAGES

<u>Raw Material</u>	<u>Lbs./Ton</u>	<u>Percent</u>
Polyvinyl Alcohol	17.0	0.85
Staramic Starch 330	68.0	3.4
Titanox AWD	51.0	2.55
Zeolex 23A	136.0	6.8
Natrosol	10.2	0.510
Cellufloc	42.5	2.125
Defoamer Mill	0.85	.0425
Vanicide 51Z	2.55	0.1275
Gypsum Land Plaster	1371.9	68.595
S. A. Vermiculite	300.0	15.0000
	2000.0	100.0000

TESTING PROCEDURE: Refer to Testing Procedure for Bestex A
(For Part-A-Pre-Mix)

**SIGURD FORMULA #941
ASBESTOS CONTAINING PRODUCTS**

SIGURD, UTAH PLANT FORMULA

BESTEX TEXTURE NO. S-941 BESTEX A

DESCRIPTION OF PRODUCT - Bestex A texture is a dry powdered product containing no aggregate, for mixing with water to produce textured finishes on gypsum wallboard by means of spraying, or by using conventional hand equipment.

-/ FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>R.M. Spec. No.</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Polyvinyl Alcohol	Adhesive	162	1.0	10
Starch (Staramic 330)	Adhesive	192	4.0	40
Titanox AWD	Pigment	131	5.0	50
Zeolex 23A	Pigment Extender	197	8.0	80
Natrosol	Thickner	170	0.2	2
Asbestos	Fiber Filler	9	10.0	100
Vanicide	Fungicide	126	0.15	1½
Defoamer M11	Antifoaming Agent	196	0.05	½
Gypsum Land Plaster	Filler Vehicle	S-21	66.6	666
Mica	Anti Cracking Agent	11	5.0	50
			100.0	1000

TESTING PROCEDURE

WORKING CONSISTENCY - Refer to Plant Testing Procedure No. 32.
Specifications:

<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
60	50	55

WORKING PROPERTIES - Refer to Plant Testing Procedure No. 33.

Compound shall be plastic, buttery working, and free of any coarse, gritty, or undispersed particles. Material shall be free from lumps due to incomplete mixing.

BONDING PROPERTIES - Refer to Plant Testing Procedure No. 35.
Specifications: After compound has dried, tape shall show at least 90% fiber tear when delaminated.

CRACK RESISTANCE - Refer to Plant Testing Procedure No. 37.
Specifications: There shall be no large fissure cracks in the wedge, and no cracks in the thinner half of the wedge.

COLOR - White
Specifications: Dried compound shall match color of standard sample.

Vanicide Spot Test: - Refer to Plant Testing Procedure No. 68.

Starch Spot Test: - Refer to Plant Testing Procedure No. 112.

EDO:dek

-/ Denotes change in this reissue.

**SIGURD FORMULA #407
ASBESTOS CONTAINING PRODUCTS**

SGP 0016177

November 19, 1959
Supersedes Formula No. S-407
Dated October 23, 1959

SIGURD, UTAH PLANT FORMULA

ACOUSTICAL FINISH PLASTER NO. S-407

KIND OF PLASTER

Sales designation - Bestwall Lite Acoustic Ultra-White Plaster. A super white acoustical plaster to be used for finish coat.

SPREAD CONSISTENCY

Maximum

Minimum

Average

275

225

250

FORMULA

Batch

Percent

Ton

Montenite Plaster (200 mesh)

43.00 lbs.

14.562

291.24 lbs.

Asbestos (70)

81.75 lbs.

27.684

553.68 lbs.

Plastering Grade Perlite
(20 cu. ft.)

160.00 lbs.

54.182

1083.64 lbs.

Tetra Sodium Pyro Phosphate

0.43 lbs. (7 oz)

.146

2.92 lbs.

Witrawet D. S.

0.71 lbs. (11½ oz)

.240

4.80 lbs.

Titanox A.W.I.

9.25 lbs.

3.132

62.64 lbs.

Sodium Nitrite

0.16 lbs. (2½ oz)

.054

1.08 lbs.

TOTAL

295.30 lbs.

100.000

2000.00 lbs.

REMARKS

All ingredients to be weighed except the perlite which is to be added by volume.

PRECAUTIONS

Special care must be taken when manufacturing this product to prevent contamination by gypsum. Asbestos shall be added first and mixed three minutes. Then add other ingredients and mix until thoroughly blended and all "bundles" of asbestos are broken up. Accurate weighing of Titanox is imperative to prevent color variation from batch to batch.

PATENT DATA

None

Replaces item in this re-issue