PLAINTIFF'S EXHIBIT

GP-464

GEORGIA PACIFIC CORPORATION
GYPSUM DIVISION
TIGARD, OREGON

January 16, 1975

TO:

~~Mr. M. A. Palmowski - Chicago~~
Mr. G. F. Fowler - Marietta
~~Mr. E. L. Aasen - Portland~~
~~Ms. R. L. Dixon - Portland~~
~~Mr. J. Van - Portland~~
~~Mr. A. J. Petraline - Wilmington~~
~~Mr. J. B. Moss - Wilmington~~
~~Mr. C. W. Lehnert~~ - Tigard
Tigard Lab

Enclosed please find the following Chicago, Illinois, plant formulas:

C-970	READY MIX FILLER	NEW
C-971	READY MIX JOINT COMPOUND (HAND TOOLS)	NEW
C-978	READY MIX FILLER (FILLER "X")	REVISED

Please cancel the following Chicago, Illinois, plant formulas by removing them from your formula books:

C-977	READY MIX JOINT COMPOUND (MACHINE TOOLS)	CANCELLED
C-979	READY MIX JOINT COMPOUND (HAND TOOLS)	CANCELLED

Please sign and return the attached tear sheet.

TO: TIGARD GYPSUM LAB

C-970	READY MIX FILLER	NEW
C-971	READY MIX JOINT COMPOUND (HAND TOOLS)	NEW
C-978	READY MIX FILLER (FILLER "X")	REVISED
C-977	READY MIX JOINT COMPOUND (MACHINE TOOLS)	CANCELLED
C-979	READY MIX JOINT COMPOUND (HAND TOOLS)	CANCELLED

SIGNED W. N. Gay PLANT _____ DATE 1-22-75

WNG

SGP 0018076

GEORGIA PACIFIC CORPORATION
GYPSUM DIVISION
TIGARD, OREGON

February 23, 1978

Closed

TO:
~~Mr. M. A. Palmowski - Chicago~~
~~Mr. G. F. Fowler - Marietta~~
Mr. D. C. ~~Corkill - Portland~~
~~Mr. E. L. Aasen - Portland~~
~~Mr. J. Van - Portland~~
~~Ms. R. L. Dixon - Portland~~
~~Mr. C. W. Lehnert - Tigard~~
Tigard Lab

Enclosed please find the following Chicago, Illinois, Plant Formula revisions:

C-970	READY MIX FILLER	REVISED
C-971	READY MIX TOPPING COMPOUND (HAND TOOLS)	REVISED
C-977	READY MIX JOINT COMPOUND (HAND TOOLS)	NEW
C-978	READY MIX FILLER	REVISED
C-979	READY MIX JOINT COMPOUND (HAND TOOLS)	REVISED

Please sign and return the attached tear sheet.

TO TIGARD GYPSUM LAB

C-970	READY MIX FILLER	REVISED
C-971	READY MIX TOPPING COMPOUND (HAND TOOLS)	REVISED
C-977	READY MIX JOINT COMPOUND (HAND TOOLS)	NEW
C-978	READY MIX FILLER	REVISED
C-979	READY MIX JOINT COMPOUND (HAND TOOLS	REVISED

SIGNED Hubert C. Jones PLANT _____ DATE 2-23-78

HCF
2/23/78

NEW

February 15, 1978
~~Supersedes Formula C-979~~
Dated: 8/2/77

977

CHICAGO, ILLINOIS PLANT FORMULA
READY MIX JOINT COMPOUND C-~~979~~ 977 (HAND TOOLS)

DESCRIPTION OF PRODUCT - White Ready Mix Joint Compound used for taping, topping and texturing. FOR SELECTED MARKET TRIALS AND SHIPMENTS TO GRAND RAPIDS ONLY.

FORMULA

Raw Material	Function	RM Spec	Percent	Lbs/Batch
-/ Proxcel-CRL	Preservative		.05	1.0
-/ Filler C-978	Filler	--	~~93.15~~ 93.35	1950.0
Elvace EP-200	Adhesive	185	.5	136.0 (15.25 gals.)
Nalco 71D-5	Defoamer	125	.1	2.0
~~Acrysol ASE-60~~	~~Thickener~~	~~147~~	~~2~~	~~4.0~~
*Water	Solvent	--	--	1104.0 (133 gals.)
			100.0	~~3197.0~~** 3193.0

*Approximately 56.5 lbs/100 lbs. of active ingredients (this may vary ± 8 gallons per batch.

** One batch yields ~~51~~ 50 ± 1 five gallon pail Ready Mix joint compound at 62 lbs/pail.

SPECIAL MIXING INSTRUCTIONS - Blend ingredients in following order:
1) Water
2) Elvace EP-200
3) Nalco
4) Filler C-978
5) Mix until filler is dispersed
6) Add Acrysol ASE-60
7) Mix until Ready Mix is smooth - pumping viscosity should be 480 ± 20 to allow for 24 hour viscosity build of 100 pts.

WORKING CONSISTENCY - Refer to Plant Testing Procedure No. 32.
Specifications for Paste: If paste is not proper working consistency, a maximum of 5 cc water per 150 grams of paste may be added to adjust.

Brabender: (580 ± 20) For Machine tools add 7 gallons H_2O (400 ± 20)

pH Minimum - 9.0 Maximum - 9.5

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.

HCF:jr

Continued on Page 2...

GEORGIA PACIFIC CORPORATION
GYPSUM DIVISION
TIGARD, OREGON

May 2, 1978

TO:

Mr. M. A. Palmowski - Chicago
~~Mr. E. L. Aasen - Portland~~
~~Mr. J. Van - Portland~~
~~Ms. R. L. Dixon - Portland~~
~~Mr. G. F. Fowler - Marietta~~
~~Mr. D. C. Corkill - Portland~~
~~Mr. C. W. Lehnert - Tigard~~
Tigard Lab

Enclosed please find the following Chicago, Illinois, Plant Formula cancellations and revision:

C-970	READY MIX FILLER	CANCELLED
C-971	READY MIX TOPPING COMPOUND	CANCELLED
C-977	READY MIX JOINT COMPOUND	CANCELLED
C-978	READY MIX FILLER	CANCELLED
C-979	READY MIX JOINT COMPOUND	CANCELLED
C-973	READY MIX FILLER	REVISED

Please sign and return the attached tear sheet.

TO: TIGARD GYPSUM LAB

C-970	READY MIX FILLER	CANCELLED
C-971	READY MIX TOPPING COMPOUND	CANCELLED
C-977	READY MIX JOINT COMPOUND	CANCELLED
C-978	READY MIX FILLER	CANCELLED
C-979	READY MIX JOINT COMPOUND	CANCELLED
C-973	READY MIX FILLER	REVISED

SIGNED Hubert Thomas PLANT LAB DATE 5-3-78

HCF
5/2/78

SGP 0018079

February 22, 1978
Formula C-977
NEW

CHICAGO, ILLINOIS PLANT FORMULA
READY MIX JOINT COMPOUND C-977 (HAND TOOLS)

DESCRIPTION OF PRODUCT - White Ready Mix Joint Compound used for taping, topping and texturing. For selected market trials and shipments to Grand Rapids only.

FORMULA

Raw Materia	Function	RM Spec	Percent	Lbs/Batch
Proxcel-CRL	Preservative	-	.05	1.0
Filler C-97	Filler	-	93.35	1 50.0
Elvace EP-200	Adhesive	185	6.5	136.0 (15.25 gals.)
Nalco 71D-5	Defoamer	125	.1	2.0
*Water	Solvent	-		1104.0 (133 gals.)
			100.0	3193.0**

*Approximately 56.5 lbs/100 lbs. of active ingredients (this may vary ± 8 gallons per batch.

** One batch yields 50 ± 1 five gallon pail Ready Mix joint compound at 62 lbs/pail.

SPECIAL MIXING INSTRUCTIONS - Blend ingredients in following order:
1) Water
2) Elvace EP-200
3) Nalco
4) Filler C-978
5) Mix until filler is dispersed
6) Mix until Ready Mix is smooth - pumping viscosity should be 480 ± 20 to allow for 24 hour viscosity build of 100 pts.

WORKING CONSISTENCY - Refer to Plant Testing Procedure No. 32.
Specifications for Paste: If paste is not proper working consistency, a maximum of 5cc water per 150 grams of paste may be added to adjust.

Brabender: (580 ± 20) For Machine tools add 7 gallons H_2O (400 ± 20)

pH Minimum - 9.0 Maximum - 9.5

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.

Continued on Page 2 ...

HCF:jr

February 22, 1978
Formula C-977
NEW

BONDING PROPERTIES Specifications	- Refer to Plant Testing Procedure No. 35. After compound has dried, tape shall show at least 90% fiber tear when delaminated.
CRACK RESISTANCE Specifications	- Refer to Plant Testing Procedure No. 37. Rating shall be 4 or better.
COLOR Specifications	- White Dried compound shall match color of standard sample.

HCF:jr

February 22, 1978
Formula C-977
NEW

CHICAGO, ILLINOIS PLANT FORMULA
READY MIX JOINT COMPOUND C-977 (HAND TOOLS)

DESCRIPTION OF PRODUCT - White Ready Mix Joint Compound used for taping, topping and texturing. For selected market trials and shipments to Grand Rapids only.

FORMULA

Raw Material	Function	RM Spec	Percent	Lbs/Batch
Proxcel-CRL	Preservative	-	.05	1.0
Filler C-978	Filler	-	93.35	1950.0
Elvace EP-200	Adhesive	185	6.5	136.0 (15.25 gals.)
Nalco 71D-5	Defoamer	125	.1	2.0
*Water	Solvent	-		1104.0 (133 gals.)
			100.0	3193.0**

*Approximately 56.5 lbs/100 lbs. of active ingredients (this may vary ± 8 gallons per batch.

** One batch yields 50 ± 1 five gallon pail Ready Mix joint compound at 62 lbs/pail.

SPECIAL MIXING INSTRUCTIONS - Blend ingredients in following order:
1) Water
2) Elvace EP-200
3) Nalco
4) Filler C-978
5) Mix until filler is dispersed
6) Mix until Ready Mix is smooth - pumping viscosity should be 480 ± 20 to allow for 24 hour viscosity build of 100 pts.

WORKING CONSISTENCY Specifications for Paste - Refer to Plant Testing Procedure No. 32. If paste is not proper working consistency, a maximum of 5cc water per 150 grams of paste may be added to adjust.

Brabender: (580 ± 20) For Machine tools add 7 gallons H_2O (400 ± 20)

pH Minimum - 9.0 Maximum - 9.5

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.

Continued on Page 2 ...

HCF:jr

February 22, 1978
Formula C-977
NEW

BONDING PROPERTIES Specifications	- Refer to Plant Testing Procedure No. 35. After compound has dried, tape shall show at least 90% fiber tear when delaminated.
CRACK RESISTANCE Specifications	- Refer to Plant Testing Procedure No. 37. Rating shall be 4 or better.
COLOR Specifications	- White Dried compound shall match color of standard sample.

HCF:jr

October 21, 1970
NEW FORMULA

CHICAGO, ILLINOIS PLANT FORMULA

READY MIX JOINT COMPOUND C-977 (MACHINE TOOLS)

DESCRIPTION OF PRODUCT: - White Ready Mix Joint Compound used for taping, topping and texturing. (Supplied on special request only.)

-/ FORMULA:

Raw Material	Function	Percent	Lbs/Batch
Water	Solvent	-	2165.00*(260 gals.)
Nalco	Anti-Foaming agent	0.1	4.00
Polyvinyl Acetate Emulsion	Adhesive	7.0	280.00
Benzoflex	Plasticizer	0.4	16.00
Filler C-978	Filler	92.5	3700.00
		100.0	6165.00**

*Approximately 56.5 lbs/100 lbs. of active ingredients (this may vary ± 8 gallons per batch.

**One batch yields 95 ± 1 five gallon pail Ready Mix joint compound at 62 lbs/pail.

WORKING CONSISTENCY: - Refer to Plant Testing Procedure No. 32.
Specifications for Paste: If paste is not proper working consistency, a maximum of 5 cc. water per 150 grams of paste may be added to adjust.

Brabender: 385 ± 20

WORKING PROPERTIES: - Refer to Plant Testing Procedure No. 33.
Specifications: 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 75% 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.

-/ Denotes change in this reissue.

March 6, 1974
Supersedes Formula C-977
Dated 1/15/74

CHICAGO, ILLINOIS PLANT FORMULA
READY MIX JOINT COMPOUND C-977 (MACHINE TOOLS)

DESCRIPTION OF PRODUCT: - White Ready Mix Joint Compound used for taping, topping, and texturing.

-/ FORMULA:

Raw Material	Function	Percent	Lbs/Batch
Water	Solvent	--	1104.00 (138 gals.)*
Nalco	Anti-foaming agent	0.1	2.00
Polyvinyl Acetate Emulsion	Adhesive	7.0	147.00 (16.3 gals.)
Preplasticizer			
Filler C-978	Filler	92.9	1950.00
		100.0	3203.00**

*Approximately 56.5 lbs/100 lbs. of active ingredients (this may vary ± 8 gallons per batch.

**One batch yields 97 ± 1 five gallon pail Ready Mix joint compound at 62 lbs/pail.

WORKING CONSISTENCY: - Refer to Plant Testing Procedure No. 32.
Specifications for Paste: If paste is not proper working consistency, a maximum of 5 cc water per 150 grams of paste may be added to adjust.

Brabender: 400 ± 20

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

-/ denotes change

WNG:elz

March 6, 1974
Supersedes Formula C-977
Dated 1/15/74

CHICAGO, ILLINOIS PLANT FORMULA
READY MIX JOINT COMPOUND C-977 (MACHINE TOOLS)

DESCRIPTION OF PRODUCT: - White Ready Mix Joint Compound used for taping, topping, and texturing.

-/ FORMULA:

Raw Material	Function	Percent	Lbs/Batch
Water	Solvent	--	1104.00 (138 gals.)*
Nalco	Anti-foaming agent	0.1	2.00
Polyvinyl Acetate Emulsion Preplasticizer	Adhesive	7.0	147.00 (16.3 gals.)
Filler C-978	Filler	92.9	1950.00
		100.0	3203.00**

*Approximately 56.5 lbs/100 lbs. of active ingredients (this may vary ± 8 gallons per batch.

**One batch yields 97 ± 1 five gallon pail Ready Mix joint compound at 62 lbs/pail.

WORKING CONSISTENCY: - Refer to Plant Testing Procedure No. 32.
Specifications for Paste: If paste is not proper working consistency, a maximum of 5 cc water per 150 grams of paste may be added to adjust.

Brabender: 400 ± 20

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

-/ denotes change

WNG:elz

January 15, 1975
Supersedes Formula C-977
Dated 4/26/73.

CHICAGO, ILLINOIS PLANT FORMULA
READY MIX JOINT COMPOUND C-977 (MACHINE TOOLS)

DESCRIPTION OF PRODUCT: - White Ready Mix Joint Compound used for taping, topping, and texturing.

FORMULA:

Raw Material	Function	Percent	Lbs/Batch
Water	Solvent	--	1286.00 (155 gals.)*
Nalco	Anti-foaming agent	0.1	2.00
Polyvinyl Acetate Emulsion Plasticizer	Adhesive	7.4	156.00 (17.3 gals.)
Filler C-978	Filler	92.5	1950.00
		100.0	3394.00**

*Approximately 56.5 lbs/100 lbs. of active ingredients (this may vary ± 8 gallons per batch.

**One batch yields 97 ± 1 five gallon pail Ready Mix joint compound at 62 lbs/pail.

WORKING CONSISTENCY: - Refer to Plant Testing Procedure No. 32.
Specifications for Paste: If paste is not proper working consistency, a maximum of 5 cc water per 150 grams of paste may be added to adjust.

-/ Brabender: 400 ± 20

WORKING PROPERTIES: - Refer to Plant Testing Procedure No. 33.
Specifications: 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 75% 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.

-/ denotes change

WNG:elz

CHICAGO FORMULA #977
ASBESTOS CONTAINING PRODUCTS