

GEORGIA PACIFIC CORPORATION
GYPSUM DIVISION
TIGARD, OREGON

PLAINTIFF'S EXHIBIT

GP-1271

December 1, 1976

TO:

Closed

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

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

C-903	TRIPLE DUTY JOINT COMPOUND	REVISED
C-923	BEDDING COMPOUND	REVISED
C-953	ALL PURPOSE JOINT COMPOUND	REVISED
C-970	READY MIX FILLER	REVISED
C-973	READY MIX FILLER	REVISED
C-978	READY MIX FILLER	REVISED

Please sign and return the attached tear sheet.

TO: TIGARD GYPSUM LAB

C-903	TRIPLE DUTY JOINT COMPOUND	REVISED
C-923	BEDDING COMPOUND	REVISED
C-953	ALL PURPOSE JOINT COMPOUND	REVISED
C-970	READY MIX FILLER	REVISED
C-973	READY MIX FILLER	REVISED
C-978	READY MIX FILLER	REVISED

SIGNED

W. A. G.

PLANT

DATE

12-14-76

WNG

12/1/76

SGP 0017306

GEORGIA-PACIFIC CORPORATION
GYPSUM DIVISION
TIGARD, OREGON

January 19, 1977

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. L. J. Petraline - Wilmington~~
~~Mr. J. B. Moss - Wilmington~~
~~Mr. C. W. Lehnert - Tigard~~
Tigard Lab

Please find enclosed the following Chicago, Illinois Plant Formula revisions:

C-903	TRIPLE DUTY JOINT COMPOUND	REVISED
C-923	BEDDING COMPOUND	REVISED
C-933	TOPPING COMPOUND	REVISED
C-953	ALL PURPOSE JOINT COMPOUND	REVISED
C-970	READY MIX FILLER	REVISED
C-973	READY MIX FILLER	REVISED
C-974	READY MIX TOPPING COMPOUND (HAND TOOLS)	REVISED
C-976	READY MIX JOINT COMPOUND (HAND TOOLS)	REVISED
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-903	TRIPLE DUTY JOINT COMPOUND	REVISED
C-923	BEDDING COMPOUND	REVISED
C-933	TOPPING COMPOUND	REVISED
C-953	ALL PURPOSE JOINT COMPOUND	REVISED
C-970	READY MIX FILLER	REVISED
C-973	READY MIX FILLER	REVISED
C-974	READY MIX TOPPING COMPOUND (HAND TOOLS)	REVISED
C-976	READY MIX JOINT COMPOUND (HAND TOOLS)	REVISED
C-978	READY MIX FILLER	REVISED
C-979	READY MIX JOINT COMPOUND (HAND TOOLS)	REVISED

SIGNED W. N. G. PLANT _____ DATE 1-21-76
WNG

SGP 0017307

GEORGIA PACIFIC CORPORATION
GYPSUM DIVISION
TIGARD, OREGON

January 16, 1975

TO:

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

Up side

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. J. G. PLANT _____ DATE 1-20-75

WNG

SGP 0017308

GEORGIA-PACIFIC CORPORATION
GYPSUM DIVISION
TIGARD, OREGON

May 4, 1977

TO:

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

Upshie

Enclosed please find the following NEW Chicago, Illinois Plant Formulas:

C-952	ALL PURPOSE COMPOUND	NEW
C-934	TOPPING COMPOUND	NEW

The following Chicago, Illinois Plant Formulas have been Cancelled:

C-936	TOPPING COMPOUND	CANCELLED
C-956	ALL PURPOSE COMPOUND	CANCELLED
C-970	READY MIX FILLER	CANCELLED
C-973	READY MIX FILLER	CANCELLED
C-974	READY MIX TOPPING COMPOUND (HAND TOOLS)	CANCELLED
C-976	READY MIX JOINT COMPOUND (HAND TOOLS)	CANCELLED

Please sign and return the attached tear sheet.

TO: TIGARD GYPSUM LAB

C-952	ALL PURPOSE COMPOUND	NEW
C-934	TOPPING COMPOUND	NEW
C-936	TOPPING COMPOUND	CANCELLED
C-956	ALL PURPOSE COMPOUND	CANCELLED
C-970	READY MIX FILLER	CANCELLED
C-973	READY MIX FILLER	CANCELLED
C-974	READY MIX TOPPING COMPOUND (HAND TOOLS)	CANCELLED
C-976	READY MIX JOINT COMPOUND (HAND TOOLS)	CANCELLED

SIGNED W. A. Pettel PLANT _____ DATE 5/4/77

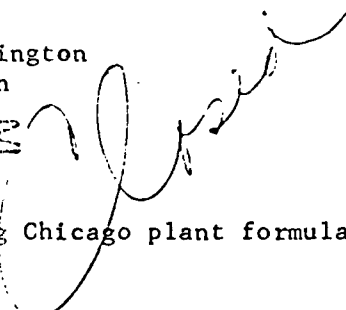
WNG/gvp
5/4/77

SGP 0017309

GEORGIA PACIFIC CORPORATION
GYPSUM DIVISION
TIGARD, OREGON

May 28, 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 

Please cancel the following Chicago plant formulas by removing them from your formula book:

C-976	READY MIX JOINT COMPOUND (HAND TOOLS)	CANCELLED
C-978	READY MIX FILLER (FILLER X)	CANCELLED

Attached find the following Chicago plant formula revisions:

C-970	READY MIX FILLER	REVISED
C-971	READY MIX JOINT COMPOUND (HAND TOOLS)	REVISED
C-972	READY MIX FILLER	REVISED
C-973	READY MIX FILLER (FILLER X)	REVISED
C-974	READY MIX TOPPING COMPOUND (HAND TOOLS)	REVISED
C-975	READY MIX TOPPING COMPOUND (MACHINE)	REVISED

Please sign and return the attached tear sheet.

TO: TIGARD GYPSUM LAB

C-976	READY MIX JOINT COMPOUND	CANCELLED
C-978	READY MIX FILLER	CANCELLED
C-970	READY MIX FILLER	REVISED
C-971	READY MIX JOINT COMPOUND	REVISED
C-972	READY MIX FILLER	REVISED
C-973	READY MIX FILLER	REVISED
C-974	READY MIX TOPPING COMPOUND	REVISED
C-975	READY MIX TOPPING COMPOUND	REVISED

SIGNED PLANT DATE 5/28/75

WNG

SGP 0017310

GEORGIA PACIFIC CORPORATION
GYPSUM DIVISION
TIGARD, OREGON

February 16, 1978

TO:

Mr. M. A. Palmowski - Chicago

~~Mr. C. F. Fowler - Marietta~~

~~Mr. D. G. 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-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-978	READY MIX FILLER	REVISED
C-979	READY MIX JOINT COMPOUND (HAND TOOLS)	REVISED

SIGNED Hubert C. Jones PLANT _____ DATE 2-16-78

HCF
2/16/78

SGP 0017311

GEORGIA-PACIFIC CORPORATION
GYPSUM DIVISION
TIGARD, OREGON

March 24, 1976

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. G. W. Lehnert - Tigard~~
Tigard Lab   THIS COPY FOR

Enclosed please find the following Chicago, Illinois plant formula revisions:

C-970	READY MIX FILLER	REVISED
C-974	READY MIX TOPPING COMPOUND (HAND TOOLS)	REVISED
C-976	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-974	READY MIX TOPPING COMPOUND (HAND TOOLS)	REVISED
C-976	READY MIX JOINT COMPOUND (HAND TOOLS)	REVISED

SIGNED W. H. H. PLANT _____ DATE 3/25/76

WNG

SGP 0017312

GEORGIA-PACIFIC CORPORATION
GYPSUM DIVISION
TIGARD, OREGON

July 21, 1976

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. Lehner - Tigard~~
Tigard Lab THIS COPY FOR

Closed

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

C-970	READY MIX FILLER	REVISED
C-976	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-976	READY MIX JOINT COMPOUND (HAND TOOLS)	REVISED

SIGNED W. A. Petter PLANT _____ DATE 7/26/76

WNG

SGP 0017313

GEORGIA-PACIFIC CORPORATION
GYPSUM DIVISION
TIGARD, OREGON

May 10, 1976

TO:

~~Mr. M. A. Palmowski - Chicago~~
~~Mr. C. 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 ← THIS COPY FOR

Classified

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

C-970	READY MIX FILLER	REVISED
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Also, please find the following NEW Chicago, Illinois Plant Formula:

C-936	TOPPING COMPOUND	NEW
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Please sign and return the attached tear sheet.

TO: TIGARD GYPSUM LAB

C-970	READY MIX FILLER	REVISED
C-936	TOPPING COMPOUND	NEW

SIGNED U. M. J. PLANT _____ DATE 6/22/76

WNG
5/10/76

SGP 0017314

GEORGIA-PACIFIC CORPORATION
GYPSUM DIVISION
TIGARD, OREGON

May 10, 1976

TO:

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

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

C-970	READY MIX FILLER	REVISED
-------	------------------	---------

Also, please find the following NEW Chicago, Illinois Plant Formula:

C-936	TOPPING COMPOUND	NEW
-------	------------------	-----

Please sign and return the attached tear sheet.

TO: TIGARD GYPSUM LAB

C-970	READY MIX FILLER	REVISED
C-936	TOPPING COMPOUND	NEW

SIGNED V. M. T. PLANT _____ DATE 6/22/76

WNG
5/10/76

SGP 0017315

GEORGIA-PACIFIC CORPORATION
GYPSUM DIVISION
TIGARD, OREGON

August 19, 1977

TO:

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

Enclosed please find the following Chicago, Illinois, Plant Formulas:

C-970	READY MIX FILLER	NEW
C-971	READY MIX TOPPING COMPOUND (HAND TOOLS)	NEW

Please sign and return the attached tear sheet.

TO: TIGARD GYPSUM LAB

C-970	READY MIX FILLER	NEW
C-971	READY MIX TOPPING COMPOUND (HAND TOOLS)	NEW

SIGNED Hubert J. Jones PLANT _____ DATE 8-19-77

HCF
8/19/77

SGP 0017316

GEORGIA-PACIFIC CORPORATION
GYPSUM DIVISION
TIGARD, OREGON

October 31, 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. J. B. Moss - Wilmington~~
~~Mr. C. W. Lehmert - Tigard~~
Tigard Lab

Closed

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

C-970

READY MIX FILLER

REVISED

Please sign and return the attached tear sheet.

TO: TIGARD GYPSUM LAB

C-970

READY MIX FILLER

REVISED

SIGNED

PLANT

DATE

WNG

SGP 0017317

July 19, 1977
Formula ~~AK-970~~ C-970
NEW

~~AK-970~~
ANDON, NEW YORK, PLANT FORMULA

READY MIX FILLER ~~AK-970~~ C-970

DESCRIPTION OF PRODUCT - Filler for Ready Mix Topping Compound ~~AK-971~~ C-971.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Limestone	Filler	13	85.216 81.609	3861.3787
Mica	Anti-cracking	11	7.314	325
Galactoseol 413 WD 250 XR	Water Retention	170	.675	30
Troysan Down 4-75	Preservative	123	27.189	1212
Minugel FG	Bulking Agent		1.800	80
Portland Cement	pH Stabilizer	51-8-136	135.360	26
Aluminum Sulfate	pH Stabilizer	58	.500	26
Pyrophyllite SK	Bulking Agent	--	4.500	200
Sorbitol (powdered)	Borax Stabilizer	--	.09.113	24
			100.000	4444

WORKING CONSISTENCY
Specifications

- Refer to Plant Testing Procedure No. 32.

<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
62	58	60

WORKING PROPERTIES
Specifications

- Refer to Plant Testing Procedure No. 33.
Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty or undispersed particles.

COLOR

Specifications

- White
Dried compound shall match color of standard sample.

NOTE: A wet mix of the filler shall be prepared according to Formula ~~AK-971~~ at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. ~~AK-971~~ C-971.

- 1 * Troysan PMA-1000P can be substituted at a loading of 15%
(3 kg/batch)

WNG:jg

CLOSED 8-4-81

GEORGIA-PACIFIC CORPORATION

GYPSUM DIVISION
TIGARD, OREGON

December 22, 1980

TO:

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

Enclosed please find the following CHICAGO, ILLINOIS
Plant Formulas:

C-970	Ready Mix Topping Compound	Revised ✓
C-971	Ready Mix Filler	Revised
C-972	Ready Mix Joint Compound (Hand Tools)	Revised

✓ mark = tear slip not rec'd.

----- Please sign and return the attached tear sheet. -----

TO: TIGARD GYPSUM LAB

(Plant Formula)

C-970	Ready Mix Topping Compound	Revised
C-971	Ready Mix Filler	Revised
C-972	Ready Mix Joint Compound (Hand Tools)	Revised

Signed: B. G. Fowler Plant: _____ Date: _____

BGR:ps
12/22/80

SGP 0017319

12/22/80

November 6, 1980

Supersedes Formula C-970

Dated: ~~8/15/80~~

11/6/80

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX TOPPING COMPOUND C-970 (HAND TOOLS)

DESCRIPTION OF PRODUCT - White Ready Mix Topping Compound used for finishing joints and spotting nail heads.

-/FORMULA

Raw Material	Function	RM Spec	Percent	Lbs/Batch
Proxel CRL	Preservative		.11	2.35
Filler C-971	Filler		95.61	95.50
DuPont JCM	Adhesive	185	4.36	89.0 (10.0 gal)
MD-76	Defoamer	125	.03	0.5 (1/2 pint)
* Water	Solvent			995.75 (120.0 gal)
			100.000	3038.0 **

* Approximately 52 lbs/100 lbs. of active ingredients (this may vary + 8 gallons per batch.

** One batch yields 49 + 1 five-gallon pail Ready Mix Joint Compound at 62 lbs/pail.

SPECIAL MIXING INSTRUCTIONS

- Blend ingredients in following order:
- 1) Water/~~Proxel CRL~~
 - 2) JCM
 - 3) Nalco
 - 4) Filler C-971
 - 5) Mix until Ready Mix is smooth - pumping viscosity should be 550 + 20.

WORKING CONSISTENCY

Specifications for Paste

Brabender (550 + 20)

pH

- Refer to Plant Testing Procedure No. 32.
- If paste is not proper working consistency, a maximum of 5 cc water per 150 grams of paste may be added to adjust.
- For machine tools, add 7 gallons H₂O (450 + 20)
- 8.0 - 9.0

WORKING PROPERTIES

Specifications

- 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.

BGR:ps

Continued on Page 2

SGP 0017320

CLOSED 3/30/81

GEORGIA-PACIFIC CORPORATION

GYPSUM DIVISION
TIGARD, OREGON

December 17, 1979

TO:

Mr. M. A. Palmowski - Chicago
~~Mr. E. L. Aasen - Portland~~
~~Mr. D. C. Corkill - Portland~~
~~Ms. R. L. Dixon - Portland~~
~~Mr. C. W. Lehnert - Tigard~~

Tigard Lab

Enclosed please find the following CHICAGO, ILLINOIS
Plant Formulas:

C-970	Ready Mix Topping Compound (Hand Tools)	<u>N E W</u>
C-971	Ready Mix Filler	Revised
C-972	Ready Mix Joint Compound (Hand Tools)	Revised
C-973	Ready Mix Filler	CANCEL
C-974	Ready Mix Joint Compound (Hand Tools)	CANCEL
C-975	Ready Mix Topping Compound (Hand Tools)	CANCEL

Please sign and return the attached tear sheet.

TO: TIGARD GYPSUM LAB

C-970	Ready Mix Topping Compound (Hand Tools)	<u>N E W</u>
C-971	Ready Mix Filler	Revised
C-972	Ready Mix Joint Compound (Hand Tools)	Revised
C-973	Ready Mix Filler	CANCEL
C-974	Ready Mix Joint Compound (Hand Tools)	CANCEL
C-975	Read Mix Topping Compound (Hand Tools)	CANCEL

Signed: Robert C. Brown Plant: LAB Date: 12-17-79

HCF:ps
12/17/79

SGP 0017321

N E W 970
Formula C-972
July 30, 1979

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX JOINT COMPOUND C-972 (HAND TOOLS)
TOPPING 970

DESCRIPTION OF PRODUCT - White Ready Mix ~~Joint~~ ^{TOPPING} Compound used for ~~FINISHING~~
~~taping, topping and texturing for 1-gallon~~
~~shipments only.~~
JOINTS AND SPOTTING NAIL HEADS

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
PMA 30	Preservative		.08 .378	1.6
Filler C-971	Filler		95.47 94.175	1950.4
DuPont JCM	Adhesive	185	4.36 5.548	89.125.0 (12.9 gal)
Nalco 71D-5	Defoamer	125	.09 .100	2.0 (120.0 gal)
* Water	Solvent			969.0 (116 gal)
				<u>995</u>
			100.000	3038.0 **

* Approximately 52 lbs/100 lbs. of active ingredients (this may vary
+ 8 gallons per batch.

** One batch yields 49 + 1 five-gallon pail Ready Mix Joint Compound
at 62 lbs/pail.

SPECIAL MIXING
INSTRUCTIONS

- Blend ingredients in following order:
 - 1) Water/PMA-30
 - 2) JCM
 - 3) Nalco
 - 4) Filler C-971
 - 5) Mix until Ready Mix is smooth - pumping
viscosity should be 550 + 20.

WORKING CONSISTENCY

Specifications for
Paste

Brabender (550 + 20)
pH

- Refer to Plant Testing Procedure No. 32.
If paste is not proper working consistency,
a maximum of 5 cc water per 150 grams of
paste may be added to adjust.
For machine tools, add 7 gallons H₂O (450 + 20)
8.0 - 9.0

WORKING PROPERTIES

Specifications

- 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:ps

Continued on Page 2

SGP 0017322

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:jg

~~CLOSED~~

10/19/81

GEORGIA-PACIFIC CORPORATION
Gypsum Division
Tigard, Oregon

October 1, 1981

TO:

~~Mr. Pat Hudgens - Portland~~
~~Mr. J. M. Herndon - Portland~~
~~Mr. C. W. Lehnert - Tigard~~

PLEASE CANCEL THE FOLLOWING CHICAGO, ILLINOIS PLANT FORMULAS:

C-903, C-923, C-953 Vinyl Joint Compounds
C-904 Triple Duty Joint Compound
C-933 Topping Compound
C-934 Topping Compound
C-970 / Ready Mix Topping Compound (Hand Tools)
C-971 Ready Mix Filler
C-972 Ready Mix Joint Compound

----- Please sign and return the attached tear sheet to the Tigard Lab. -----

TO: TIGARD GYPSUM LAB
Tigard, Oregon

(Plant Formula)

C-903, C-923, C-953 Vinyl Joint Compounds
C-904 Triple Duty Joint Compound
C-933 Topping Compound
C-934 Topping Compound
C-970 Ready Mix Topping Compound (Hand Tools)
C-971 Ready Mix Filler
C-972 Ready Mix Joint Compound

Signed: Bruce Randall Plant: _____ Date: _____

BGR:ps
10/1/81

SGP 0017324

December 22, 1980
Supersedes Formula C-970
Dated: 11/6/80

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX TOPPING COMPOUND C-970 (HAND TOOLS)

DESCRIPTION OF PRODUCT - White Ready Mix Topping Compound used for finishing joints and spotting nail heads.

-/FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Filler C-971	Filler		95.61	1952.75
DuPont JCM	Adhesive	185	4.36	89.0 (10.0 gal)
MD-76	Defoamer	125	.03	0.5 (1/2 pint)
* Water	Solvent			995.75 (120.0 gal)
			100.000	3038.0 **

* Approximately 52 lbs/100 lbs. of active ingredients (this may vary $\pm$ 8 gallons per batch.

** One batch yields 49 $\pm$ 1 five-gallon pail Ready Mix Joint Compound at 62 lbs/pail.

SPECIAL MIXING INSTRUCTIONS

- Blend ingredients in following order:
 - 1) Water
 - 2) JCM
 - 3) Nalco
 - 4) Filler C-971
 - 5) Mix until Ready Mix is smooth - pumping viscosity should be 550 $\pm$ 20.

WORKING CONSISTENCY

Specifications for Paste

Brabender (550 $\pm$ 20)
pH

- Refer to Plant Testing Procedure No. 32.
If paste is not proper working consistency, a maximum of 5 cc water per 150 grams of paste may be added to adjust.
For machine tools, add 7 gallons H₂O (450 $\pm$ 20)
8.0 - 9.0

WORKING PROPERTIES

Specifications

- 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.

BGR:ps

Continued on Page 2

SGP 0017325

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:ps

GEORGIA PACIFIC CORPORATION
GYPSUM DIVISION
TIGARD, OREGON

February 23, 1978

TO:

~~Mr. M. A. Palmowski - Chicago~~
~~Mr. C. 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

Closed

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

Robert C. Jones

PLANT

DATE

2-23-78

HCF

2/23/78

SGP 0017327

February 15, 1978
Supersedes Formula C-970
Dated: 8/19/77

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

DESCRIPTION OF PRODUCT - Filler for Ready Mix Topping Compound C-971.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
-/ Limestone	Filler	13	85.486	3799
Mica	Anti-Cracking	11	7.314	325
METHOLEX Natresol 250 HXR 856-S	Water Retention	170	.675	30
Minugel FG	Bulking Agent	--	1.800	80
Magnesium Oxide (Heavy)	Viscosity Stabilizer	--	.135	6
Pyrophyllite SK	Bulking Agent	--	4.500	200
Sorbitol (powdered)	Borax Stabilizer	--	.09	4
			100.000	4444

WORKING CONSISTENCY
Specifications

- Refer to Plant Testing Procedure No. 32.
Maximum Minimum Average

62 58 60

WORKING PROPERTIES
Specifications

- Refer to Plant Testing Procedure No. 33.
Filler shall be very heavily bodied and possess
fair plasticity. It shall be free of any coarse,
gritty or undispersed particles.

COLOR

Specifications

- White
Dried compound shall match color of standard sample.

NOTE: A wet mix of the filler shall be prepared according to Formula C-971 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-971.

Please Note: Dowicil-75 can be used at a loading of .27% (12 lbs/batch.)
When Proxcel is not used.

HCF:jr

SGP 0017328

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

HCF

5/2/78

PLANT

DATE 5-3-78

SGP 0017329

February 22, 1978
Supersedes Formula C-970
Dated: 2/15/78

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

DESCRIPTION OF PRODUCT - Filler for Ready Mix Topping Compound C-971.

<u>FORMULA</u>				
<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Limestone	Filler	13	85.486	3799
Mica	Anti-Cracking	11	7.314	325
-/Methocel 856-S	Water Retention	170	.675	30
Minugel FG	Bulking Agent	--	1.800	80
Magnesium Oxide (Heavy)	Viscosity Stabilizer	--	.135	6
Pyrophyllite SK	Bulking Agent	--	4.500	200
Sorbitol (powdered)	Borax Stabilizer	--	.09	4
			100.000	4444

<u>WORKING CONSISTENCY</u> <u>Specifications</u>	- Refer to Plant Testing Procedure No. 32.		
	<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
	62	58	60

<u>WORKING PROPERTIES</u> <u>Specifications</u>	- Refer to Plant Testing Procedure No. 33. Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty or undispersed particles.
--	---

<u>COLOR</u> <u>Specifications</u>	- White Dried compound shall match color of standard sample.
---------------------------------------	---

NOTE: A wet mix of the filler shall be prepared according to Formula C-971 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-971.

Please Note: Dowicil-75 can be used at a loading of .27% (12 lbs/batch.)
When Proxcel is not used.

HCF: jr

SGP 0017330

CLOSED
12-9-80

GEORGIA-PACIFIC CORPORATION

GYPSUM DIVISION
TIGARD, OREGON

August 15, 1980

TO:

~~Mr. M. A. Palmowski - Chicago~~
~~Mr. E. I. Aasen - Portland~~
~~Mr. D. C. Corkill - Portland~~
~~Mr. J. M. Herndon - Portland~~
~~Mr. C. W. Lehnert - Tigard~~
~~Mr. G. F. Fowler - Marietta,~~
Tigard Lab

Enclosed please find the following CHICAGO, ILLINOIS
Plant Formulas:

C-970	READY MIX TOPPING COMPOUND	Revised ✓
C-972	READY MIX JOINT COMPOUND	Revised

-----Please sign and return the attached tear sheet.-----

TO: TIGARD GYPSUM LAB

8/14/80
(Plant Formula)

C-970	Ready Mix Topping Compound	Revised
C-972	Ready Mix Joint Compound	Revised

Signed: T. G. K. Plant: _____ Date: _____

BGR:ps
8/14/80

SGP 0017331

May 21, 1980
Supersedes Formula C-970
Dated: 12/17/79

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX TOPPING COMPOUND C-970 (HAND TOOLS)

DESCRIPTION OF PRODUCT - White Ready Mix Topping Compound used for finishing joints and spotting nail heads.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
-/ Proxel-CRL	Preservative		.08	1.6 2.35
Filler C-971	Filler		95.47	1950.4
DuPont JCM	Adhesive	185	4.36	89.0 (10.0 gal)
D-76 Nalco 71D-5	Defoamer	125	.09	2.0 0.5 (1/2 pint)
* Water	Solvent			995.0 (120.0 gal)
			100.000	3038.0 **

* Approximately 52 lbs/100 lbs. of active ingredients (this may vary $\pm$ 8 gallons per batch.

** One batch yields 49 $\pm$ 1 five-gallon pail Ready Mix Joint Compound at 62 lbs/pail.

SPECIAL MIXING INSTRUCTIONS

- Blend ingredients in following order:
 - / 1) Water/Proxel CRL
 - 2) JCM
 - 3) Nalco
 - 4) Filler C-971
 - 5) Mix until Ready Mix is smooth - pumping viscosity should be 550 $\pm$ 20.

WORKING CONSISTENCY

Specifications for Paste

Brabender (550 $\pm$ 20)
pH

- Refer to Plant Testing Procedure No. 32.
If paste is not proper working consistency, a maximum of 5 cc water per 150 grams of paste may be added to adjust.
- For machine tools, add 7 gallons H₂O (450 $\pm$ 20)
- 8.0 - 9.0

WORKING PROPERTIES

Specifications

- 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.

CLOSED
JUN 3 - 1980

GEORGIA-PACIFIC CORPORATION

GYPSUM DIVISION
TIGARD, OREGON

May 21, 1980

TO:

~~Mr. M. A. Palmowski - Chicago~~
~~Mr. E. L. Aasen - Portland~~
~~Mr. D. C. Corkill - Portland~~
~~Ms. R. L. Dixon - Portland~~
~~Mr. C. W. Lehnert - Tigard~~

Tigard Lab

Enclosed please find the following CHICAGO, ILLINOIS,
Plant Formulas:

C-970	Ready Mix Topping Compound	Revised
C-972	Ready Mix Joint Compound	Revised

----- Please sign and return the attached tear sheet. -----

TO: TIGARD GYPSUM LAB

C-970	Ready Mix Topping Compound	Revised
C-972	Ready Mix Joint Compound	Revised

Signed: Robert C. Jones Plant: LAB Date: 5-22-80
HCP:ps
5/21/80

SGP 0017333

N E W

Formula C-970

December 17, 1979

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX TOPPING COMPOUND C-970 (HAND TOOLS)

DESCRIPTION OF PRODUCT - White Ready Mix Topping Compound used for finishing joints and spotting nail heads.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
PMA-30 <i>PROXEL-CEL</i>	Preservative		.08	1.6
Filler C-971	Filler		95.47	1950.4
DuPont JCM	Adhesive	185	4.36	89.0 (10.0 gal)
Nalco 71D-5	Defoamer	125	.09	2.0
* Water	Solvent			995.0 (120.0 gal)
			100.000	3038.0 **

* Approximately 52 lbs/100 lbs. of active ingredients (this may vary $\pm$ 8 gallons per batch.

** One batch yields 49 $\pm$ 1 five-gallon pail Ready Mix Joint Compound at 62 lbs/pail.

SPECIAL MIXING INSTRUCTIONS

- Blend ingredients in following order:
 - 1) Water/~~PMA-30~~ *PROXEL-CEL*
 - 2) JCM
 - 3) Nalco
 - 4) Filler C-971
 - 5) Mix until Ready Mix is smooth - pumping viscosity should be 550 $\pm$ 20.

WORKING CONSISTENCY

Specifications for Paste

- Refer to Plant Testing Procedure No. 32.

If paste is not proper working consistency, a maximum of 5 cc water per 150 grams of paste may be added to adjust.

Brabender (550 $\pm$ 20)
pH

For machine tools, add 7 gallons H₂O (450 $\pm$ 20)
8.0 - 9.0

WORKING PROPERTIES

Specifications

- 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.

CLOSED 11-19-80

GEORGIA-PACIFIC CORPORATION

GYPSUM DIVISION
TIGARD, OREGON

11/6/80

TO:

~~Mr. M. A. Palmowski - Chicago~~
~~Mr. E. L. Aasen - Portland~~
~~Mr. D. C. Corkill - Portland~~
~~Mr. J. M. Herndon - Portland~~
~~Mr. C. W. Lehnert - Tigard~~

Tigard Lab

Enclosed please find the following CHICAGO, ILLINOIS
Plant Formulas:

C-970	READY MIX TOPPING COMPOUND	Revised ✓
C-972	READY MIX JOINT COMPOUND	Revised

----- Please sign and return the attached tear sheet. -----

TO: TIGARD GYPSUM LAB

(Plant Formula)

C-970	Ready Mix Topping Compound	Revised
C-972	Ready Mix Joint Compound	Revised

Signed: Bussard Plant: _____ Date: _____

BGR:ps
11/6/80

SGP 0017335

August 15, 1980
Supersedes Formula C-970
Dated: 5/21/80

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX TOPPING COMPOUND C-970 (HAND TOOLS)

DESCRIPTION OF PRODUCT - White Ready Mix Topping Compound used for finishing joints and spotting nail heads.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
-/ Proxcel-CRL	Preservative		.08	2.35
Filler C-971	Filler	25.50	95.47	1950.4
DuPont JCM	Adhesive	185	4.36	89.0 (10.0 gal)
-/ MD-76	Defoamer	125 .03	09.02	0.5 (1/2 pint)
* Water	Solvent		975.75	995.0 (120.0 gal)
			100.000	3038.0 **

* Approximately 52 lbs/100 lbs. of active ingredients (this may vary + 8 gallons per batch.

** One batch yields 49 + 1 five-gallon pail Ready Mix Joint Compound at 62 lbs/pail.

SPECIAL MIXING INSTRUCTIONS

- Blend ingredients in following order:
 - 1) Water/Proxcel CRL
 - 2) JCM
 - 3) Nalco
 - 4) Filler C-971
 - 5) Mix until Ready Mix is smooth - pumping viscosity should be 550 + 20.

WORKING CONSISTENCY

Specifications for Paste

Brabender (550 + 20)
pH

- Refer to Plant Testing Procedure No. 32.
If paste is not proper working consistency, a maximum of 5 cc water per 150 grams of paste may be added to adjust.
For machine tools, add 7 gallons H₂O (450 + 20)
8.0 - 9.0

WORKING PROPERTIES

Specifications

- 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.

BGR:ps

Continued on Page 2

SGP 0017336

February 24, 1978
Supersedes Formula C-970
Dated: 2/15/78

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

DESCRIPTION OF PRODUCT - Filler for Ready Mix Topping Compound C-971.

<u>FORMULA</u>				
<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Limestone	Filler	13	85.486	3799
Mica	Anti-Cracking	11	7.314	325
-/Methocel 856-S	Water Retention	170	.675	30
Minugel FG	Bulking Agent	--	1.800	80
Magnesium Oxide (Heavy)	Viscosity Stabilizer	--	.135	6
Pyrophyllite SK	Bulking Agent	--	4.500	200
Sorbitol (powdered)	Borax Stabilizer	--	.09	4
			100.000	4444

<u>WORKING CONSISTENCY</u> <u>Specifications</u>	- Refer to Plant Testing Procedure No. 32.		
	<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
	62	58	60

WORKING PROPERTIES
Specifications - Refer to Plant Testing Procedure No. 33.
Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty or undispersed particles.

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

NOTE: A wet mix of the filler shall be prepared according to Formula C-971 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-971.

Please Note: Dowicil-75 can be used at a loading of .27% (12 lbs/batch.)
When Proxcel is not used.

HCF:jr

SGP 0017337

N E W

Formula C-970

December 17, 1979

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX TOPPING COMPOUND C-970 (HAND TOOLS)

DESCRIPTION OF PRODUCT - White Ready Mix Topping Compound used for finishing joints and spotting nail heads.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
PMA 30	Preservative		.08	1.6
Filler C-971	Filler		95.47	1950.4
DuPont JCM	Adhesive	185	4.36	89.0 (10.0 gal)
Nalco 71D-5	Defoamer	125	.09	2.0
* Water	Solvent			995.0 (120.0 gal)
			100.000	3038.0 **

* Approximately 52 lbs/100 lbs. of active ingredients (this may vary $\pm$ 8 gallons per batch.

** One batch yields 49 $\pm$ 1 five-gallon pail Ready Mix Joint Compound at 62 lbs/pail.

SPECIAL MIXING INSTRUCTIONS

- Blend ingredients in following order:
 - 1) Water/PMA-30
 - 2) JCM
 - 3) Nalco
 - 4) Filler C-971
 - 5) Mix until Ready Mix is smooth - pumping viscosity should be 550 $\pm$ 20.

WORKING CONSISTENCY

Specifications for Paste

- Refer to Plant Testing Procedure No. 32.

If paste is not proper working consistency, a maximum of 5 cc water per 150 grams of paste may be added to adjust.

Brabender (550 $\pm$ 20)

For machine tools, add 7 gallons H₂O (450 $\pm$ 20)

pH

8.0 - 9.0

WORKING PROPERTIES

Specifications

- 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

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:ps

December 8, 1967
NEW FORMULA

CHICAGO, ILLINOIS PLANT FORMULA

READY MIX FILLER C-970 (FILLER "X")

DESCRIPTION OF PRODUCT - Filler for Ready Mix Joint Compound, FTD-975 and ER-975.

FORMULA

<u>Raw Material</u>	<u>Source</u>	<u>R.M. Spec.</u>	<u>Percent</u>	<u>Lbs./Batch</u>
Gelvatol 20-30 BP	Shawinigan Resin Corp.	162	0.80	32.0
Natrosol 250 HXR				
(Fine Grind)	Hercules Powder	170	0.65	26.0
Mica P80H	Western Mica Co.	11	13.00	520.0
Asbestos 7KF9	Phillip Carey Co.	9	4.50	180.0
Limestone	Thompson-Weinman	13	81.05	3242.0
			100.00	4000.0

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

WORKING PROPERTIES - Refer to Plant Testing Procedure No. 33.
Specifications: Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty or undispersed particles.

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

NOTE: A wet mix of filler shall be prepared according to Formula No. C-975 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound, Formula No. C-975.

February 12, 1974
New Formula C-970

CHICAGO, ILLINOIS PLANT FORMULA
READY MIX JOINT COMPOUND C-970 (HAND TOOLS)

DESCRIPTION OF PRODUCT - White Ready Mix Joint Compound used for
taping, topping and texturing. To be
shipped to selected customers only.

FORMULA

<u>Raw Material.</u>	<u>Function</u>	<u>Percent</u>	<u>Lbs./Batch</u>
Water	Solvent	-	1031.00(129 gals)
Nalco	Anti-foaming agent	0.1	2.00
Polyvinyl Acetate Emulsion (preplasticized)	Adhesive	6.4	135.00(15.0 gals)
Filler C-972	Filler	93.5	1971.00
		<u>100.0</u>	<u>3139.00**</u>

*Approximately 54.4 lbs/100 lbs. of active ingredients (this may
vary $\pm$ 8 gallons per batch).

**One batch yields 53 $\pm$ 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: 580 $\pm$ 20

WORKING PROPERTIES - Refer to Plant Testing Procedure No. 33
Specifications: Compound shall be plastic, buttery working,
and free of any coarse, gritty, or undisperse
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.

WNG:jg

SGP 0017341

January 16, 1975
Formula C-970
NEW

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

DESCRIPTION OF PRODUCT. - Filler for Ready Mix joint compound C-971 .

<u>FORMULA</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Asbestos 7RFO9	Bulking agent	9	4.25	170.00
Dowicil 75	Fungicide	193	.20	8.00
Gelvatol 6000	Adhesive	162	1.00	40.00
Gendriv 492S	Water retention aid	223	.75	30.00
Mica	Anti-cracking agent	11	9.50	380.00
Asbestos (SG-210)	Bulking agent	--	1.25	50.00
Limestone	Filler	13	<u>83.05</u>	<u>3322.00</u>
			100.00	4000.00

WORKING CONSISTENCY
Specifications

- Refer to Plant Testing Procedure No. 32.

<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
57	53	55

WORKING PROPERTIES
Specifications

- Refer to Plant Testing Procedure No. 33.
Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty, or undispersed particles.

COLOR
Specifications

- White
Dried compound shall match color of standard sample.

NOTE: A wet mix of the filler shall be prepared according to Formula No. C-972 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-972.

WNG:jg

SGP 0017342

MAH 27, 1975
January 16, 1975
Superior Formula C-970
NEW DATED 1/16/75

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

DESCRIPTION OF PRODUCT - Filler for Ready Mix joint compound C-971

<u>FORMULA</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
*Asbestos 7RF09	Bulking agent	9	4.25	170.00
Dowicil 75	Fungicide	193	.20	8.00
Gelvato1 6000	Adhesive	162	1.00	40.00
Gendriv 492S	Water retention aid	223	.75	30.00
Mica	Anti-cracking agent	11	9.50	380.00
Asbestos (SG-210)	Bulking agent	7-13	1.25	50.00
Limestone	Filler	13	83.05	3322.00
			100.00	4000.00

<u>WORKING CONSISTENCY</u> <u>Specifications</u>	- Refer to Plant Testing Procedure No. 32.		
	<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
	57	53	55

<u>WORKING PROPERTIES</u> <u>Specifications</u>	- Refer to Plant Testing Procedure No. 33. Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty, or undispersed particles.
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<u>COLOR</u> <u>Specifications</u>	- White Dried compound shall match color of standard sample.
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* ALLIANCE 7RF 02 MAY BE SUBSTITUTED. USE AT A ADDITION OF 2.75 (110 LBS/BATCH).

NOTE: A wet mix of the filler shall be prepared according to Formula No. C-972 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-972.

WNG:jg

SGP 0017343

May 27, 1975
Supersedes: Formula C-970
Dated: 1/16/75

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

DESCRIPTION OF PRODUCT - Filler for Ready Mix joint compound C-971

<u>FORMULA</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
-/ *Asbestos 7RF09	Bulking agent	9	4.25	170.00
Dowicil 75	Fungicide	193	.20	8.00
Gelvatol 6000	Adhesive	162	1.00	40.00
Gendriv 492S	Water retention aid	223	.75	30.00
Mica	Anti-cracking agent	11	9.50	380.00
Asbestos (SG-210)	Bulking agent	18	1.25	50.00
Limestone	Filler	13	<u>83.05</u>	<u>3322.00</u>
			100.00	4000.00

WORKING CONSISTENCY - Refer to Plant Testing Procedure No. 32.
Specifications Maximum Minimum Average

57 53 55

WORKING PROPERTIES - Refer to Plant Testing Procedure No. 33.
Specifications Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty, or undispersed particles.

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

NOTE: A wet mix of the filler shall be prepared according to Formula No. C-972 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-972.

-/ *Asbestos 7RF02 may be substituted. Use at a loading of 2.75% (110 lbs/batch).

-/ denotes change

WNG:elz

SGP 0017344

October 31, 1975
Supersedes: Formula C-970
Dated: 5/27/75

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

DESCRIPTION OF PRODUCT - Filler for Ready Mix joint compound C-971 & C-976

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Asbestos SG210	Bulking Agent	18	1.75	70.00
./ *Asbestos 7RF02	Bulking Agent	9	1.75	70.00
Dowicil 75	Preservative	193	.40	16.00
Hamico 267	Adhesive	23	1.00	40.00
Natrosol 250 HXR	Water Retention Aid	170	.50	20.00
Mica P80-F	Anti-Cracking	11	7.50	300.00
Sericite Mica GP-F-2	Mica-Extender	-	12.00	480.00
Limestone	Filler	13	75.10	3004.00
			100.00	4000.00

WORKING CONSISTENCY
Specifications

- Refer to Plant Testing Procedure No. 32.

<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
57	53	55

WORKING PROPERTIES
Specifications

- Refer to Plant Testing Procedure No. 33. Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty, or undispersed particles.

COLOR

Specifications

- White
Dried compound shall match color of standard sample.

NOTE: A wet mix of the filler shall be prepared according to Formula No. C-971 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-971.

-/ denotes change

WNG:gvp

SGP 0017345

October 31, 1975
Supersedes: Formula C-970
Dated: 5/27/75

10/31/75

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

-/ DESCRIPTION OF PRODUCT - Filler for Ready Mix joint compound ~~C-971~~ & C-976

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Asbestos SG210	Bulking Agent	18	1.75	70.00
-/ *Asbestos 7RF02	Bulking Agent	9	1.75	70.00
Dowicil 75	Preservative	193	.40	16.00
Hamico 267	Adhesive	23	1.00	40.00
Natrosol 250 HXR	Water Retention Aid	170	.50	20.00
Mica P80-F	Anti-Cracking	11	7.50	300.00
Sericite Mica GP-F-2	Mica-Extender	-	12.00	480.00
Limestone	Filler	13	75.10	3004.00
			100.00	4000.00

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

<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
57	53	55

WORKING PROPERTIES - Refer to Plant Testing Procedure No. 33. Filler shall be
Specifications very heavily bodied and possess fair plasticity. It shall
be free of any coarse, gritty, or undispersed particles.

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

NOTE: A wet mix of the filler shall be prepared according to Formula No. C-971
at least twice a day or with every 6th or 7th batch of filler manufactured.
This prepared mix shall be tested and shall meet all the specifications
required of Ready Mix Joint Compound - Formula No. C-971.

-/ denotes change

WNG:gvp

SGP 0017346

March 23, 1976
Supersedes: Formula C-970
Dated: 10/31/75

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

-/ DESCRIPTION OF PRODUCT - Filler for Ready Mix joint compound C-976.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Asbestos S3210	Bulking Agent	18	1.75	70.00
*Asbestos RF02	Bulking Agent	9	1.75	70.00
Dowicil 75	Preservative	193	.40	16.00
Hamico 267	Adhesive	23	1.00	40.00
Natrosol 250 HXR	Water Retention Aid	170	.50	20.00
Mica P80-F	Anti-Cracking	11	7.50	300.00
Sericite Mica GP-F-2	Mica-Extender	-	12.00	480.00
Limestone	Filler	13	<u>75.10</u>	<u>3004.00</u>
			100.00	4000.00

WORKING CONSISTENCY
Specifications

- Refer to Plant Testing Procedure No. 32.

<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
57	53	55

WORKING PROPERTIES
Specifications

- Refer to Plant Testing Procedure No. 33. Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty, or undispersed particles.

COLOR
Specifications

- White
Dried compound shall match color of standard sample.

NOTE: A wet mix of the filler shall be prepared according to Formula No. C-971 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-971.

-/ denotes change

WNG:gvp

SGP 0017347

March-23, 1976 *10/31/75*
Supersedes: Formula C-970
Dated: ~~10/31/75~~
3/23/76

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

-/ DESCRIPTION OF PRODUCT - Filler for Ready Mix joint compound C-976.

-/ FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Asbestos SG210	Bulking Agent	18	1.75	1.575 70.00
*Asbestos 7RF02	Bulking Agent	9	1.75	1.575 70.00
Dowicil 75	Preservative	193	.40	.260 16.00
Hamico 267	Adhesive	23	1.00	.900 40.00
Natrosol 250 HXR	Water Retention Aid	170	.50	.450 20.00
Mica P80-F	Anti-Cracking	11	7.50	6.750 300.00
Sericite Mica GP-F-2	Mica-Extender	-	12.00	10.800 480.00
Limestone	Filler	1377.588	75.10	3004.00
			100.00	<u>4444.00</u>

<u>WORKING CONSISTENCY</u> <u>Specifications</u>	- Refer to Plant Testing Procedure No. 32.		
	<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
	57	53	55

WORKING PROPERTIES
Specifications - Refer to Plant Testing Procedure No. 33. Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty, or undispersed particles.

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

NOTE: A wet mix of the filler shall be prepared according to Formula No. C-971 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-971.

-/ denotes change

WNG:gvp

SGP 0017348

May 10, 1976

Supersedes: Formula C-970

Dated: 3/23/76

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

-/ DESCRIPTION OF PRODUCT - Filler for Ready Mix joint compound C-976.

-/ FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Asbestos SG210	Bulking Agent	18	1.575	70.00
*Asbestos 7RF02	Bulking Agent	9	1.575	70.00
Dowicil 75	Preservative	193	.360	16.00
Hamico 267	Adhesive	23	.900	40.00
Natrosol 250 HXR	Water Retention Aid	170	.450	20.00
Mica P80-F	Anti-Cracking	11	6.751	300.00
Sericite Mica GP-F-2	Mica-Extender	-	10.801	480.00
Limestone	Filler	13	77.588	3448.00
			100.00	4444.00

WORKING CONSISTENCY
Specifications

- Refer to Plant Testing Procedure No. 32.

<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
57	53	55

WORKING PROPERTIES
Specifications

- Refer to Plant Testing Procedure No. 33. Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty, or undispersed particles.

COLOR

Specifications

- White
Dried compound shall match color of standard sample.

NOTE: A wet mix of the filler shall be prepared according to Formula No. C-971 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-971.

-/ denotes change

WNG:gvp

SGP 0017349

May 10, 1976
Supersedes: Formula C-970
Dated: 5/23/76

5/10/76

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

-/ DESCRIPTION OF PRODUCT - Filler for Ready Mix joint compound C-976.

-/ FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
-/ Asbestos SG210	Bulking Agent	18	1.575	70.00
*Asbestos 7RF02	Bulking Agent	9	1.575	70.00
Dowicil 75	Preservative	193	.360	16.00
-/ Hamico 267	Adhesive	23	.900	40.00
Natrosol 250 HXR	Water Retention Aid	170	.450	20.00
Mica P80-F	Anti-Cracking	11	6.751	300.00
Sericite Mica GP-F-2	Mica-Extender	-	10.801	480.00
-/ Limestone	Filler	13	77.813	3448.00
			100.00	4444.00

WORKING CONSISTENCY
Specifications

- Refer to Plant Testing Procedure No. 32.

<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
57	53	55

WORKING PROPERTIES
Specifications

- Refer to Plant Testing Procedure No. 33. Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty, or undispersed particles.

COLOR

Specifications

- White
Dried compound shall match color of standard sample.

NOTE: A wet mix of the filler shall be prepared according to Formula No. C-971 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-971.

-/ denotes change

WNG:gvp

SGP 0017350

July 21, 1976
Supersedes: Formula C-970
Dated: 5/10/76

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

DESCRIPTION OF PRODUCT - Filler for Ready Mix joint compound C-976.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
-/ Sorbitol	Borax Stabilizer	-	.090	4.00
Asbestos SG210	Bulking Agent	18	1.575	70.00
*Asbestos 7RF02	Bulking Agent	9	1.575	70.00
Dowicil 75	Preservative	193	.360	16.00
-/ Hamico 267	Adhesive	23	.585	26.00
Natrosol 250 HXR	Water Retention Aid	170	.450	20.00
Mica P80-F	Anti-Cracking	11	6.751	300.00
Sericite Mica GP-F-2	Mica-Extender	-	10.801	480.00
-/ Limestone	Filler	13	77.813	3458.00
			100.00	4444.00

<u>WORKING CONSISTENCY</u> <u>Specifications</u>	- Refer to Plant Testing Procedure No. 32.
	<u>Maximum</u> <u>Minimum</u> <u>Average</u>
	57 53 55

<u>WORKING PROPERTIES</u> <u>Specifications</u>	- Refer to Plant Testing Procedure No. 33. Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty, or undispersed particles.
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<u>COLOR</u> <u>Specifications</u>	- White Dried compound shall match color of standard sample.
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NOTE: A wet mix of the filler shall be prepared according to Formula No. C-971 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-971.

-/ denotes change

WNG:gvp

SGP 0017351

November 23, 1976
Supersedes: Formula C-970
Dated: 7/21/76

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

DESCRIPTION OF PRODUCT - Filler for Ready Mix joint compound C-976.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Sorbitol	Borax Stabilizer	-	.090	4.00
Asbestos SG210	Bulking Agent	18	1.575	70.00
*Asbestos 7RF02	Bulking Agent	9	1.575	70.00
Dowicil 75	Preservative	193	.360	16.00
Hamico 267	Adhesive	23	.585	26.00
Natrosol 250 HXR	Water Retention Aid	170	.450	20.00
Mica P80-F	Anti-Cracking	11	6.751	300.00
-/ Sericite Mica GP-F-2	Mica-Extender	-	6.751	300.00
-/ Limestone	Filler	13	<u>81.863</u>	<u>3638.00</u>
			100.00	4444.00

WORKING CONSISTENCY
Specifications

- Refer to Plant Testing Procedure No. 32.

<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
57	53	55

WORKING PROPERTIES
Specifications

- Refer to Plant Testing Procedure No. 33. Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty, or undispersed particles.

COLOR

Specifications

- White
Dried compound shall match color of standard sample.

NOTE: A wet mix of the filler shall be prepared according to Formula No. C-971 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-971.

-/ denotes change

WNG:gvp

SGP 0017352

Supersedes: Formula C-970

Dated: 7/21/76

11/23/76

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

DESCRIPTION OF PRODUCT - Filler for Ready Mix joint compound C-976.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Sorbitol	Borax Stabilizer	-	.090	4.00
Asbestos SG210	Bulking Agent	18	1.575	70.00
*Asbestos 7RF02	Bulking Agent	9	1.575	70.00
**Dowicil 75	Preservative	193	.360	16.00
Hamico 267	Adhesive	23	.585	26.00
Natrosol 250 HXR	Water Retention Aid	170	.450	20.00
Mica P80-F	Anti-Cracking	11	6.751	300.00
-/ Sericite Mica GP-F-2	Mica-Extender	-	6.751	300.00
-/ Limestone	Filler	13	81.863	3638.00
			100.00	4444.00

WORKING CONSISTENCY
Specifications

- Refer to Plant Testing Procedure No. 32.

Maximum

Minimum

Average

57

53

55

WORKING PROPERTIES
Specifications

- Refer to Plant Testing Procedure No. 33. Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty, or undispersed particles.

COLOR

Specifications

- White

Dried compound shall match color of standard sample.

NOTE: A wet mix of the filler shall be prepared according to Formula No. C-971 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-971.

** TROYSAN PMA-10-SEP MAY BE SUBSTITUTED.
USE AT A LOADING OF 8 LBS./BATCH

-/ denotes change

WNG:gvp

SGP 0017353

JAN. 10, 1977
December 1, 1976
Supersedes: Formula C-970
Dated: 11/23/76
12/1/76

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

DESCRIPTION OF PRODUCT - Filler for Ready Mix joint compound C-976.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>	
-/ Sorbitol	Borax Stabilizer	-	.067	.090	4.00 3.0
Asbestos SG210	Bulking Agent	18	1.575	70.00	
*Asbestos 7RF02	Bulking Agent	9	1.575	70.00	
-/ ** Dowicil 75	Preservative	193	.360	16.00	4.00
Hamico 267	Adhesive	23	.585	26.00	
Natrosol 250 HXR	Water Retention Aid	170	.450	20.00	
Mica P80-F	Anti-Cracking	11	6.751	300.00	
Sericite Mica GP-F-2	Mica-Extender	-	6.751	300.00	
-/ Limestone	Filler	138	2.066	81.863	3633.00 2647
			100.00	4444.00	

WORKING CONSISTENCY
Specifications

- Refer to Plant Testing Procedure No. 32.

<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
57	53	55

WORKING PROPERTIES
Specifications

- Refer to Plant Testing Procedure No. 33. Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty, or undispersed particles.

COLOR

Specifications

- White
Dried compound shall match color of standard sample.

NOTE: A wet mix of the filler shall be prepared according to Formula No. C-971 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-971.

~~/** Troysan PMA-10-SEP may be substituted. Use at a loading of 8 lbs./batch.~~

-/ denotes change

WNC: jg
yp

SGP 0017354

December 1, 1976
Supersedes: Formula C-970
Dated: 11/23/76

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

DESCRIPTION OF PRODUCT - Filler for Ready Mix joint compound C-976.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Sorbitol	Borax Stabilizer	-	.090	4.00
Asbestos SG210	Bulking Agent	18	1.575	70.00
*Asbestos RF02	Bulking Agent	9	1.575	70.00
**Dowicil 75	Preservative	193	.560	16.00
Hamico 267	Adhesive	23	.585	26.00
Natrosol 250 HXR	Water Retention Aid	170	.450	20.00
Mica P80-F	Anti-Cracking	11	6.751	300.00
Sericite Mica GP-F-2	Mica-Extender	-	6.751	300.00
Limestone	Filler	13	<u>81.863</u>	<u>3638.00</u>
			100.00	4444.00

WORKING CONSISTENCY
Specifications

- Refer to Plant Testing Procedure No. 32.

<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
57	53	55

WORKING PROPERTIES
Specifications

- Refer to Plant Testing Procedure No. 33. Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty, or undispersed particles.

COLOR

Specifications

- White
Dried compound shall match color of standard sample.

NOTE: A wet mix of the filler shall be prepared according to Formula No. C-971 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-971.

-/**Troysan PMA-10-SEP may be substituted. Use at a loading of 8 lbs./batch.

-/ denotes change

WNG: jg

SGP 0017355

January 10, 1977
Supersedes: Formula C-970
Dated: 12/1/76

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

DESCRIPTION OF PRODUCT - Filler for Ready Mix joint compound C-976.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
-/ Sorbitol	Borax Stabilizer	-	.067	3.00
Asbestos SG210	Bulking Agent	18	1.575	70.00
*Asbestos 7RF02	Bulking Agent	9	1.575	70.00
-/ Troysan PMA-10-SP	Preservative	-	.180	8.00
Hamico 267	Adhesive	23	.585	26.00
Natrosol 250 HXR	Water Retention Aid	170	.450	20.00
Mica P80-F	Anti-Cracking	11	6.751	300.00
Sericite Mica GP-F-2	Mica-Extender	-	6.751	300.00
-/ Limestone	Filler	13	82.066	3647.00
			100.00	4444.00

WORKING CONSISTENCY
Specifications

- Refer to Plant Testing Procedure No. 32.

<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
57	53	55

WORKING PROPERTIES
Specifications

- Refer to Plant Testing Procedure No. 33. Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty, or undispersed particles.

COLOR

Specifications

- White
Dried compound shall match color of standard sample.

NOTE: A wet mix of the filler shall be prepared according to Formula No. C-971 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-971.

-/ denotes change

WNG: gvp

SGP 0017356

August 19, 1977
Formula C-970
NEW

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

DESCRIPTION OF PRODUCT - Filler for Ready Mix Topping Compound C-971.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Limestone	Filler	13	85.486 85.216	3799 3767
Mica	Anti-Cracking	11	7.314	325
Natrosol 250 HXR	Water Retention	170	.675	30
Dowicil-75	Preservative	195	.27	12
Minugel FG	Bulking Agent	--	1.800	80
Magnesium Oxide (Heavy)	Viscosity Stabilizer	--	.135	6
Pyrophyllite SK	Bulking Agent	--	4.500	200
Sorbitol (powdered)	Borax Stabilizer	--	.09	4
			100.000	4444

WORKING CONSISTENCY
Specifications

- Refer to Plant Testing Procedure No. 32.

<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
62	58	60

WORKING PROPERTIES
Specifications

- Refer to Plant Testing Procedure No. 33.

Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty or undispersed particles.

COLOR

Specifications

- White

Dried compound shall match color of standard sample.

NOTE: A wet mix of the filler shall be prepared according to Formula C-971 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-971.

NOTE.

~~Dowicil-75~~ ^{USED} can be substituted at a loading of ~~40%~~ ^{.272 12} (8 lbs/batch.) WHEN PROXCEL IS NOT USED.

HCF:jr

August 19, 1971
Formula C-970
NEW

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX FILLER C-970

DESCRIPTION OF PRODUCT - Filler for Ready Mix Topping Compound C-971.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Limestone	Filler	13	85.216	3787
Mica	Anti-Cracking	11	7.314	325
Natrosol 250 HXR	Water Retention	170	.675	30
Dowicil-75	Preservative	193	.27	12
Minugel FG	Bulking Agent	--	1.800	80
Magnesium Oxide (Heavy)	Viscosity Stabilizer	--	.135	6
Pyrophyllite SK	Bulking Agent	--	4.500	200
Sorbitol (powdered)	Borax Stabilizer	--	.09	4
			100.000	4444

WORKING CONSISTENCY
Specifications

- Refer to Plant Testing Procedure No. 32.

<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>
62	58	60

WORKING PROPERTIES
Specifications

- Refer to Plant Testing Procedure No. 33.
Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty or undispersed particles.

COLOR

Specifications

- White
Dried compound shall match color of standard sample.

NOTE: A wet mix of the filler shall be prepared according to Formula C-971 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-971.

*Troysan PMA-10-SEP can be substituted at a loading of .18% (8 lbs/batch.)

HCF:jr

SGP 0017358

May 21, 1980
Supersedes Formula C-970
Dated: 12/17/79

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX TOPPING COMPOUND C-970 (HAND TOOLS)

DESCRIPTION OF PRODUCT - White Ready Mix Topping Compound used for finishing joints and spotting nail heads.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
-/ Proxcel-CRL	Preservative		.08	1.6
Filler C-971	Filler		95.47	1950.4
DuPont JCM	Adhesive	185	4.36	89.0 (10.0 gal)
Nalco 71D-5	Defoamer	125	.09	2.0
* Water	Solvent			995.0 (120.0 gal)
			100.000	3038.0 **

* Approximately 52 lbs/100 lbs. of active ingredients (this may vary $\pm$ 8 gallons per batch.

** One batch yields 49 $\pm$ 1 five-gallon pail Ready Mix Joint Compound at 62 lbs/pail.

SPECIAL MIXING INSTRUCTIONS

- Blend ingredients in following order:
-/ 1) Water/Proxcel CRL
2) JCM
3) Nalco
4) Filler C-971
5) Mix until Ready Mix is smooth - pumping viscosity should be 550 $\pm$ 20.

WORKING CONSISTENCY

Specifications for Paste

Brabender (550 $\pm$ 20)
pH

- Refer to Plant Testing Procedure No. 32.
If paste is not proper working consistency, a maximum of 5 cc water per 150 grams of paste may be added to adjust.
For machine tools, add 7 gallons H₂O (450 $\pm$ 20)
8.0 - 9.0

WORKING PROPERTIES

Specifications

- 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.

SGP 0017359

November 6, 1980
Supersedes Formula C-970
Dated: 8/15/80

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX TOPPING COMPOUND C-970 (HAND TOOLS)

DESCRIPTION OF PRODUCT - White Ready Mix Topping Compound used for finishing joints and spotting nail heads.

-/FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Proxcel-CRL	Preservative		.11	2.35
Filler C-971	Filler		95.50	1950.4
DuPont JCM	Adhesive	185	4.36	89.0 (10.0 gal)
MD-76	Defoamer	125	.03	0.5 (1/2 pint)
* Water	Solvent			995.75 (120.0 gal)
			100.000	3038.0 **

* Approximately 52 lbs/100 lbs. of active ingredients (this may vary $\pm$ 8 gallons per batch.

** One batch yields 49 $\pm$ 1 five-gallon pail Ready Mix Joint Compound at 62 lbs/pail.

SPECIAL MIXING INSTRUCTIONS

- Blend ingredients in following order:
 - 1) Water/Proxcel CRL
 - 2) JCM
 - 3) Nalco
 - 4) Filler C-971
 - 5) Mix until Ready Mix is smooth - pumping viscosity should be 550 ± 20 .

WORKING CONSISTENCY

Specifications for Paste

Brabender (550 ± 20)
pH

- Refer to Plant Testing Procedure No. 32.
If paste is not proper working consistency, a maximum of 5 cc water per 150 grams of paste may be added to adjust.
For machine tools, add 7 gallons H_2O (450 ± 20)
8.0 - 9.0

WORKING PROPERTIES

Specifications

- 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.

BGR:ps

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SGP 0017360

August 15, 1980
Supersedes Formula C-970
Dated: 5/21/80

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX TOPPING COMPOUND C-970 (HAND TOOLS)

DESCRIPTION OF PRODUCT - White Ready Mix Topping Compound used for finishing joints and spotting nail heads.

FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
-/ Proxcel-CRL	Preservative		.08	2.35
Filler C-971	Filler		95.47	1950.4
DuPont JCM	Adhesive	185	4.36	89.0 (10.0 gal)
-/ MD-76	Defoamer	125	.09	0.5 (1/2 pint)
* Water	Solvent			995.0 (120.0 gal)
			100.000	3038.0 **

* Approximately 52 lbs/100 lbs. of active ingredients (this may vary $\pm$ 8 gallons per batch.

** One batch yields 49 $\pm$ 1 five-gallon pail Ready Mix Joint Compound at 62 lbs/pail.

SPECIAL MIXING INSTRUCTIONS

- Blend ingredients in following order:
 - 1) Water/Proxcel CRL
 - 2) JCM
 - 3) Nalco
 - 4) Filler C-971
 - 5) Mix until Ready Mix is smooth - pumping viscosity should be 550 $\pm$ 20.

WORKING CONSISTENCY

Specifications for Paste

- Refer to Plant Testing Procedure No. 32.

If paste is not proper working consistency, a maximum of 5 cc water per 150 grams of paste may be added to adjust.

Brabender (550 $\pm$ 20)
pH

For machine tools, add 7 gallons H₂O (450 $\pm$ 20)
8.0 - 9.0

WORKING PROPERTIES

Specifications

- 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.

BGR:ps

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SGP 0017361

December 22, 1980
Supersedes Formula C-970
Dated: 11/6/80.

CHICAGO, ILLINOIS, PLANT FORMULA
READY MIX TOPPING COMPOUND C-970 (HAND TOOLS):

DESCRIPTION OF PRODUCT - White Ready Mix Topping Compound used for finishing joints and spotting nail heads.

-/FORMULA

<u>Raw Material</u>	<u>Function</u>	<u>RM Spec</u>	<u>Percent</u>	<u>Lbs/Batch</u>
Filler C-971	Filler		95.62	1952.75
DuPont JCM	Adhesive	185	4.36	89.0 (10.0 gal)
MD-76	Defoamer	125	.03	0.5 (1/2 pint)
* Water	Solvent			995.75 (120.0 gal)
			100.000	3038.0 **

* Approximately 52 lbs/100 lbs. of active ingredients (this may vary $\pm$ 8 gallons per batch.

** One batch yields 49 $\pm$ 1 five-gallon pail Ready Mix Joint Compound at 62 lbs/pail.

SPECIAL MIXING INSTRUCTIONS

- Blend ingredients in following order:
 - 1) Water
 - 2) JCM
 - 3) Nalco
 - 4) Filler C-971
 - 5) Mix until Ready Mix is smooth - pumping viscosity should be 550 $\pm$ 20.

WORKING CONSISTENCY
Specifications for Paste

Brabender (550 $\pm$ 20)
pH

- Refer to Plant Testing Procedure No. 32.
If paste is not proper working consistency, a maximum of 5 cc water per 150 grams of paste may be added to adjust.
For machine tools, add 7 gallons H₂O (450 $\pm$ 20)
8.0 - 9.0

WORKING PROPERTIES
Specifications

- 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.

BGR:ps

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SGP 0017362

JAN. 15, 1975
 May 20, 1974
 NEW FORMULA Supersedes C-978 C-972
 Dated 3/6/74

CHICAGO, ILLINOIS, PLANT FORMULA
 READY MIX FILLER C-978 (FILLER "X")
 C-970

DESCRIPTION OF PRODUCT - Filler for Ready Mix joint compound C-979 and C-977

FORMULA	Function	RM Spec	Percent	Lbs/Batch
Asbestos 7RF09	Bulking Agent	9	4.25	170.00
Dowicil 75	Fungicide	193	.20	8.00
CHICAGO Polyvinyl Alcohol 6000	Adhesive	162	1.00	40.00
*Thickener 6000 4025	Water retention aid	170 or 223	.75	30.00
Mica	Anti-cracking agent	11	9.50	380.00
Asbestos (SG-210)	Bulking agent	--	1.25	50.00
Limestone	Filler	13	83.05	3346.00
			100.00	4000.00

WORKING CONSISTENCY Specifications	Maximum	Minimum	Average
	57	53	55

WORKING PROPERTIES Specifications - Refer to Plant No. 33.
 Filler shall be very heavily bodied and possess fair plasticity. It shall be free of any coarse, gritty or undispersed particles.

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

NOTE: A wet mix of the filler shall be prepared according to Formula No. C-979 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-979.

*Natrocol 250 HXR or Gendry 4925

-/ denotes change

WNG:elz

MAY 21, 1975
 May 27, 1975
 Supersedes: Formula C-970
 Dated: 1/16/75
 5/27/75

FORMULA

RAW MATERIAL	FUNCTION	R.M. SPEC	PERCENT	LB/BATCH
ASBESTOS SG 210	BULKING AGENT	18	1.75	70.00
ASBESTOS 7RF-02	BULKING AGENT	9	1.75	70.00
DOWICIL 75	PRESERVATIVE	193	.40	16.00
HANICO 267	ADHESIVE	23	1.00	40.00
WATROSON 250 H.R.	WATER RETENTION AID	170	.50	20.00
MICA P 80-F	ANTI-CRACKING	11	7.60	300.00
SERICITE MICA GP-F-2	MICA - EXTENDER	—	12.00	480.00
SERICITE MICA GP-F-2	MICA - EXTENDER	—	12.00	480.00
SORBITOL	BORAX STABILIZER	—	1.00	4.00
LINGSTONE	FILLER	13	75.10	3004.00
			100.00	4000.00

COLOR

Specifications

- White

Dried compound shall match color of standard sample.

NOTE:

A wet mix of the filler shall be prepared according to Formula No. C-972 at least twice a day or with every 6th or 7th batch of filler manufactured. This prepared mix shall be tested and shall meet all the specifications required of Ready Mix Joint Compound - Formula No. C-972.

-/ *Asbestos 7RF02 may be substituted. Use at a loading of 2.75% (110 lbs/batch).

-/ denotes change

WNG:elz

**CHICAGO FORMULA #970
ASBESTOS CONTAINING PRODUCTS**

SGP 0017305