

090009 2457

Originally Issued 6-2-72

SPECIAL BULLETIN

1st Extension

Operating Division

PRODUCT PROCEDURE

CONFIDENTIALUSG READY MIXED JOINT COMPOUND TOPPING
JE-1010S - DALLAS

No. 61-2-25-Q

Date 7-23-73

Page 1

Cancels Page 1

Dated 7-9-73

This bulletin expires 6-1-74.

DESCRIPTION

A low shrinkage topping compound, containing Southard Terra Alba, designed for joint finishing with minimum cratering.

MANUFACTURING PLANT

Dallas

IDENTIFICATION AND PACKAGING

- C 62 lb. pails per FMS 8-29-3 or 8-15-15-3, and 50 lb. cartons per FMS 8-10-29. Normal code to be followed by the suffix S.

FINISHED PRODUCT SPECIFICATIONS

- A. Color Natural White.
B. Viscosity - 600 $\pm$ 30BB units with pin at 75°F.
C. Bond - 2 minimum
D. Weight per Gal. about 13.1 lbs. per gal.

FORMULA

	% NON-VOLATILE	LEB/200 LBS. N. V.
P-80F Mica	1.25%	25
TRF02 Asbestos	2.0%	40
Cellocize QP-100M	0.7	14
Southard Terra Alba to make	92.05%	1841
FM-4386 (60%)	4.0	133
CMF Acetate	-	1
Troysan 174	-	1
Emulsified Mineral Spirits*		34

See Manufacturing Procedure for details on preparation and addition of emulsified mineral spirits.

JPC09 2697

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0-5791-C Rev. 1/73 (Printed in U.S.A.) T C Indicates Change

Operating Division PRODUCT PROCEDURE	CONFIDENTIAL USG READY-MIXED JOINT COMPOUND TOPPING (JE-851C)	No. 61-2-25-2 Date 8-24-73 Page 1 Cancels NEW Dated								
<u>DESCRIPTION</u> C Plants to manufacture a special white READY-MIXED Topping Compound for shipment per direction of C.C.P.D. Joint Treatment Product Manager. <u>MANUFACTURING PLANTS</u> Gypsum and Midway <u>IDENTIFICATION AND PACKAGING</u> C 62 lb. metal or plastic topping pail per PMS 8-29-3 or 8-15-15-3 and 50 lb. topping cartons per PMS 8-10-29. <u>FINISHED PRODUCT SPECIFICATIONS</u> <table border="0"> <tr> <td>A. Color</td> <td>- Special White</td> </tr> <tr> <td>B. Viscosity</td> <td>- 600 $\pm$ 30 BB units with pin at 75°F</td> </tr> <tr> <td>C. Bond</td> <td>- Gypsum - 2 Minimum at 75°F - 50% R.H. Midway - 4 Minimum using Hot Room @ 90°F and 10% R.H.</td> </tr> <tr> <td>D. Wt./Gal.</td> <td>- 13.5 to 13.7 lbs. per gallon for regular consistency.</td> </tr> </table>			A. Color	- Special White	B. Viscosity	- 600 $\pm$ 30 BB units with pin at 75°F	C. Bond	- Gypsum - 2 Minimum at 75°F - 50% R.H. Midway - 4 Minimum using Hot Room @ 90°F and 10% R.H.	D. Wt./Gal.	- 13.5 to 13.7 lbs. per gallon for regular consistency.
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D. Wt./Gal.	- 13.5 to 13.7 lbs. per gallon for regular consistency.									

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Operating Division
PRODUCT PROCEDURE

CONFIDENTIAL

USG READY-MIXED JOINT COMPOUND
TOPPING (JE-851C)

No. 61-2-25-2
Date 8-24-73
Page 2
Cancels NEW
Dated

<u>FORMULA</u>	<u>% Non-Volatile</u>	<u>Lbs/2000 Lbs. H. V.</u>
325 Mesh W. G. Mica	5.0%	100
PC7RF9 Asbestos (Note 3)	2.0	40
Pyrax A or Pyrax B	15.0	300
CMP Acetate (Note 2)	0.05	1
Troysan 174 (Note 2)	0.05	1
GM-65	0.7	14
#9NCS (Note 1)	to make 96.5%	to make 1476 lbs.
PM-4386 (60% solids)	3.5	116.5
Water	---	125 gal. approx.

NOTE 1: Midway to use Quincy #3.

NOTE 2: Gypsum to use Cosan 158 instead of Troysan 174 and CMP Acetate.

NOTE 3: Midway to use TRF66.

RAW MATERIALS

Per bulletin 61-2-24 except:

325 W. G. Mica	PMS 6-143-4
Pyrax A	PMS 6-103-1
Pyrax B	PMS 6-103-2
CMP Acetate	PMS 6-100-5
GM-65	PMS 6-151-16
Troysan 174	PMS 6-100-14
Quincy #3	PMS 6-24-22
Cosan 158	Cosan Chemical

MANUFACTURING PROCEDURE

Per Bulletin 61-2-24.

END

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0-5791-C Rev. 1/73 (Printed in U.S.A.)T

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Operating Division
PRODUCT PROCEDURE

CONFIDENTIAL

USG READY-MIXED JOINT COMPOUND
TOPPING (JE-851C)

No. 61-2-25-2
Date 12-12-73
Page 2
Cancels Page 2
Dated 8-24-73

FORMULA

% Non-Volatile

Lbs/2000 Lbs. N. V.

	325 Mesh W. G. Mica	5.0%	100
C	PC7RF9 Asbestos (Note 2)	2.0	40
	Pyrax A or Pyrax B	15.0	300
C	Cosan 158A	0.05	1
	Troysan 174 (Note 2)	0.05	1
	GM-65	0.7	14
	#9NCS (Note 1)	to make 96.5%	to make 1476 lbs.
	PM-4386 (60% solids)	3.5	116.5
	Water	—	125 gal. approx.
D	NOTE 1: Midway to use Quincy #3.		
C	NOTE 2: Midway to use TRF66.		

RAW MATERIALS

Per bulletin 61-2-24 except:

	325 W. G. Mica	PMS 6-143-4
	Pyrax A	PMS 6-103-1
D	Pyrax B	PMS 6-103-2
	GM-65	PMS 6-151-16
	Troysan 174	PMS 6-100-14
	Quincy #3	PMS 6-24-22
C	Cosan 158A	Cosan Chemical

MANUFACTURING PROCEDURE

Per Bulletin 61-2-24.

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0-5791-C Rev. 1/73 (Printed in U.S.A.)T

C Indicates Change

D Indicates Deletion

00017 C116

Operating Division	CONFIDENTIAL	No.	61-2-25-U
PRODUCT PROCEDURE		Date	5-8-74
		Page	2
		Cancel	New
		Dated	
USG READY-MIXED TOPPING JE 1221G			

FORMULA - JE1221G

<u>R/M #</u>		<u>z</u>	<u>LBS./4000 lb. N.V.</u>
61747	Mica P-80 F	1.25	50
66460	Cellose QP100M	0.7	28
66167	Composition T	0.2	8
61740	SG-210 Asbestos	1.5	60
61583	Landplaster - Bulk	To make 100%	Approx. 3,734
65273	Amsco 3001P	3.0	200 (approx. 22 gal.)
66685	Troysan 174	0.05	2
66660	Troysan CMP Acetate	0.05	2
67799	Water	—	Approx. 226 gal.

RAW MATERIALS

<u>R/M #</u>		<u>PER</u>
61747	Mica P-80 F	PMS 6-143-1
66460	Cellose QP100M	Union Carbide Corp.
66167	Composition T	Merck Chemical Company
61740	SG-210 Asbestos	PMS 6-14-11
61583	Landplaster - Bulk	USG - Gypsum, Ohio, Plant
65273	Amsco 3001P	PMS 6-104-55
66685	Troysan 174	PMS 6-100-14
66660	Troysan CMP Acetate	PMS 6-100-5
67799	Water	

MANUFACTURING PROCEDURE

Pre-blend mica and thickener prior to addition to reduce thickener lumping tendency. Mix at heavy viscosity originally then add water to adjust viscosity. Batches to be "CP" processed.

END.

01007 2526

SPECIAL BULLETIN

Operating Division	CONFIDENTIAL	No. 61-2-25-U
PRODUCT PROCEDURE		Date 7-11-74
	USG READY-MIXED TOPPING JE 1221G	Page 1
		Cancels Page 1
		Dated 5-8-74

This bulletin to expire 5-1-75.

DESCRIPTION

A new, lower cost topping compound which utilizes Plaster City classified Terra Alba. Trials and subsequent shipments as directed by WCPD Division Joint Treatment Product Manager.

MANUFACTURING PLANT

South Gate

IDENTIFICATION AND PACKAGING

62 lb. plastic pail per FMS 8-15-15-3. Circular plastic sheet per FMS 8-5-11 to be laid over the surface of the compound.

50 lb. carton per FMS 8-10-29. Liner per FMS 8-5-4. The letter "K" to follow normal code for identification.

FINISHED PRODUCT SPECIFICATIONS

- a. Color - natural
- b. Viscosity - 550 ± 30 units with pin 75 r.p.m.
- c. Bond - 2 minimum
- d. pH - 7.3 - 7.8

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0-5791-C Rev. 1/74 (Printed in U.S.A.)T

C Indicates Change

43214 1-23

Operating Division	CONFIDENTIAL	No. 61-2-25-U
PRODUCT PROCEDURE		Date 7-11-74
		Page 2
		Cancels Page 2
		Dated 5-8-74
USG READY-MIXED TOPPING JE 12210		

FORMULA - JE1221G

<u>R/M #</u>		<u>g</u>	<u>LBS./4000 lb. N.V.</u>
61747	Mica P-80 F	1.25	50
66460	Cellosize QP100M	0.7	28
66167	Composition T	0.2	8
61740	SG-210 Asbestos	1.5	60
A 61561	Lime Hydrate	0.05	2
C 61457	Landplaster - Bulk	To make 100%	Approx. 3,682
C 65273	AMSCO 3001P	2.5	166 (approx. 18 gal.)
66685	Troysan 174	0.05	2
66660	Troysan CMP Acetate	0.05	2
67799	Water	—	Approx. 226 gal.

RAW MATERIALS

<u>R/M #</u>		<u>PER</u>
61747	Mica P-80 F	PMS 6-143-1
66460	Cellosize QP100M	Union Carbide Corp.
66167	Composition T	Merck Chemical Company
61740	SG-210 Asbestos	PMS 6-14-11
A 61561	Lime Hydrate	Oro Grande Lime and Stone Corp.
C 61457	Landplaster - Bulk	USG - Plaster City
65273	Amsco 3001P	PMS 6-104-55
66685	Troysan 174	PMS 6-100-14
66660	Troysan CMP Acetate	PMS 6-100-5
67799	Water	

MANUFACTURING PROCEDURE

Pre-blend mica and thickener prior to addition to reduce thickener lumping tendency. Mix at heavy viscosity originally then add water to adjust viscosity. Batches to be "CF" processed.

END.

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0-5791-C Rev. 1/74 (Printed in U.S.A.) T A Indicates Addition C Indicates Change

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SPECIAL BULLETIN

Operating Division PRODUCT PROCEDURE Approved: <i>[Signature]</i>	CONFIDENTIAL DO NOT REPRODUCE OR COPY USG JOINT COMPOUND-TOPPING (FE 137A) SOUTH GATE	No. 61-2-11-2-H Date 6-14-68 Page 2 Cancels Page 2 Dated 4-4-68																										
<table> <thead> <tr> <th>FORMULA</th> <th>FE 137A</th> </tr> </thead> <tbody> <tr> <td>Gelva Powder, GP-702</td> <td>2.0 %</td> </tr> <tr> <td>B329</td> <td>2.0 %</td> </tr> <tr> <td>Santicizer 9</td> <td>.2 %</td> </tr> <tr> <td>7RFO2 Asbestos</td> <td>approx 5.0 %</td> </tr> <tr> <td>GM 65</td> <td>.8 %</td> </tr> <tr> <td>Zinc Oxide</td> <td>.1 %</td> </tr> <tr> <td>Tetra Sodium Pyrophosphate</td> <td>.1 %</td> </tr> <tr> <td>Advacide TJP</td> <td>.1 %</td> </tr> <tr> <td>Dicyandiamide</td> <td>1.0 %</td> </tr> <tr> <td>Nopco PDI</td> <td>.4 %</td> </tr> <tr> <td>WMC P85 Mica</td> <td>per 1/2 V (approx. 9.0)</td> </tr> <tr> <td>Marblewhite 325</td> <td>to make 100 % (approx 79.3)</td> </tr> </tbody> </table>			FORMULA	FE 137A	Gelva Powder, GP-702	2.0 %	B329	2.0 %	Santicizer 9	.2 %	7RFO2 Asbestos	approx 5.0 %	GM 65	.8 %	Zinc Oxide	.1 %	Tetra Sodium Pyrophosphate	.1 %	Advacide TJP	.1 %	Dicyandiamide	1.0 %	Nopco PDI	.4 %	WMC P85 Mica	per 1/2 V (approx. 9.0)	Marblewhite 325	to make 100 % (approx 79.3)
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Marblewhite 325	PMS 6-24-1																											
<u>MANUFACTURING PROCEDURE</u> Per Bulletin 61-2-23 except prior to making this product, a thorough brush down of the mixer and packing equipment must be made, followed by a clean out charge of Marblewhite 325. End																												

NP006 1785

SPECIAL BULLETIN

Operating Division PRODUCT PROCEDURE Approved: <i>[Signature]</i>	CONFIDENTIAL DO NOT REPRODUCE OR COPY USG JOINT COMPOUND - TOPPING (FE-125A) NEW BRIGHTON	No. 61-2-11-2-F Date 6-14-68 Page 3 Cancels Page 3 Dated 9-20-67																																																				
<u>FORMULA</u> (FE-125A) <table> <tr><td>Gelva Powder 702</td><td>2.0%</td></tr> <tr><td>Santicizer #9</td><td>0.2</td></tr> <tr><td>B-329</td><td>2.0</td></tr> <tr><td>Advacide TJP</td><td>.1</td></tr> <tr><td>Dicyandiamide</td><td>1.0</td></tr> <tr><td>JM7RFO2 Asbestos</td><td>5.0 (as required)</td></tr> <tr><td>GM-65</td><td>.8</td></tr> <tr><td>325 Mesh Water Ground Mica</td><td>7.0</td></tr> <tr><td>Zinc Oxide</td><td>.1</td></tr> <tr><td>Tetra Sodium pyrophosphate</td><td>.1</td></tr> <tr><td>Rambo #4</td><td>(to make 100%)</td></tr> <tr><td>Snowflake F</td><td>25.0</td></tr> <tr><td>Pyrax A</td><td>15.0</td></tr> </table> <u>RAW MATERIALS</u> <table> <tr><td>Gelva Powder 702</td><td>6-104-18-1</td></tr> <tr><td>Santicizer #9</td><td>6-98-2</td></tr> <tr><td>B-329</td><td>6-124-10</td></tr> <tr><td>Advacide TJP</td><td>Carlisle Chemical Works</td></tr> <tr><td>Dicyandiamide</td><td>6-44-1</td></tr> <tr><td>JM7RFO2 Asbestos</td><td>6-14-5</td></tr> <tr><td>GM-65</td><td>Dow Chemical Co.</td></tr> <tr><td>325 Mesh Water Ground Mica</td><td>6-143-4</td></tr> <tr><td>Zinc Oxide</td><td>6-94-91</td></tr> <tr><td>Tetra sodium pyrophosphate</td><td>6-177-4</td></tr> <tr><td>Rambo #4</td><td>6-24-9</td></tr> <tr><td>Snowflake F</td><td>6-24-7</td></tr> <tr><td>Pyrax A</td><td>6-103-1</td></tr> </table> <u>MANUFACTURING PROCEDURE</u> Per Bulletin 61-2-23, except a thorough brushing down, followed by a clean-out charge of carbonate filler must be run before this product is made. (No clean-out is necessary afterwards as this product will not contaminate regular casein compounds.) End			Gelva Powder 702	2.0%	Santicizer #9	0.2	B-329	2.0	Advacide TJP	.1	Dicyandiamide	1.0	JM7RFO2 Asbestos	5.0 (as required)	GM-65	.8	325 Mesh Water Ground Mica	7.0	Zinc Oxide	.1	Tetra Sodium pyrophosphate	.1	Rambo #4	(to make 100%)	Snowflake F	25.0	Pyrax A	15.0	Gelva Powder 702	6-104-18-1	Santicizer #9	6-98-2	B-329	6-124-10	Advacide TJP	Carlisle Chemical Works	Dicyandiamide	6-44-1	JM7RFO2 Asbestos	6-14-5	GM-65	Dow Chemical Co.	325 Mesh Water Ground Mica	6-143-4	Zinc Oxide	6-94-91	Tetra sodium pyrophosphate	6-177-4	Rambo #4	6-24-9	Snowflake F	6-24-7	Pyrax A	6-103-1
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SPECIAL BULLETIN

Operating Division	CONFIDENTIAL DO NOT REPRODUCE OR COPY USC JOINT COMPOUND - TOPPING (FE-97C)	No. 61-2-11-2-B
PRODUCT PROCEDURE		Date 6-14-68
Approved: <i>[Signature]</i>		Page 2
		Cancels Page 2
		Dated 4-11-67

<u>FORMULA</u>	<u>FE-97C</u>
GP-702	2.5%
Santicizer No. 9	0.25
B-329	2.5
Advacide TJP	0.1
Dicyandiamide	1.0
JM 7HFO2 Asbestos	As req'd (about 4% in lab)
P-85 Mica	Formula V
GM-65	0.8
Zinc Oxide	0.1
Tetrasodium Pyrophosphate	0.1
No. 9 NCS	To make 100%
Ferrite Yellow	(approx. 0.1 as required)
<u>RAW MATERIALS</u>	
GP-702	Monsanto
Santicizer No. 9	Per PMS 6-98-2
B-329 *	Per PMS 6-124-10
Advacide TJP	Carlisle Chemical Works
Dicyandiamide	Per PMS 6-44-1
JM 7HFO2 Asbestos	Per PMS 6-14-5
P-85 Mica	Per PMS 6-143-3
GM-65 *	Dow Chemical Co.
Zinc Oxide	Per PMS 6-94-91
Tetrasodium Pyrophosphate	Per PMS 6-129-1
No. 9 NCS	Per PMS 6-24-9
* Raw Material Testing Procedures per PMS 12-45.	
<u>MANUFACTURING PROCEDURE</u>	
Per Bulletin 61-2-23, except that a thorough brushing down followed by a clean-out charge of calcium carbonate shall be done before this product is made.	
End	

SPECIAL BULLETIN

Operating Division
PRODUCT PROCEDURE**CONFIDENTIAL**
DO NOT REPRODUCE OR COPYNo. 61-2-11-2-G
Date 5-22-68
Page 2Approved: *[Signature]*USG JOINT COMPOUND - TOPPING
NEW BRIGHTON FE-132Cancels Page 2
Dated 2-28-68FORMULAFE-132

BN-13	1.3%
B-329	2.0
GP-702	0.7
Gum Arabic No. 2 Tech. Grade	0.13
Santicizer #9	0.07
GM-65	0.4
Zinc Oxide	0.1
Vancide 51-Z	0.15
JM7FR02 Asbestos	4.5 (as required)
Serecite Filler (1)	15.0
Mica P-85	- (per formula V)
Carbonate Filler (2)	- (to make 100%)
Ferrite Yellow	- (approx. 0.1 as required)

- (1) New Brighton to use CEF-1, Gypsum to use SER-X.
 C (2) New Brighton to use A Dolomite or #325 Mineral Filler, Gypsum to use Stonelite.

RAW MATERIALS

- | | |
|---|--------------------------------------|
| A. BN-13* | National Starch and Chemical Corp. |
| B. B-329* | A. E. Staley Manufacturing Co. |
| C. GP-702 | Monsanto |
| D. Gum Arabic | #2 Tech. Grade. |
| E. Santicizer #9 | Monsanto |
| F. GM-65* | Dow Chemical Co. |
| A G. Carbonate Filler (Gypsum Only) | Per PMS 6-24-2. |
| A H. Carbonate Filler (New Brighton Only) | Per Bulletin 58-2-2 and PMS 6-24-17. |
- * Raw Material Testing Procedures per PMS 12-45.

MANUFACTURING PROCEDURE

Per Bulletin 61-2-26 except a thorough brushing down, followed by a clean-out charge of carbonate filler must be run before this product is made.
 (No clean-out is necessary afterwards as this product will not contaminate regular casein compounds.)

End

SPECIAL BULLETIN

Operating Division	USG JOINT COMPOUND-TOPPING (FE 137A)	No. 61-2-11-2-E Date 4-4-68 Page 1
PRODUCT PROCEDURE		
Approved: <i>[Signature]</i>	SOUTH GATE	Cancels Dated NEW

This bulletin expires 4-1-69.

DESCRIPTION

South Gate is authorized to manufacture FE 137A, a new USG Joint Compound - Topping.

This bulletin is not suitable for establishment on a permanent basis until the requirements on Purchase Material Specifications as listed in Section VIII, Information Bulletin 303, have been complied with.

MANUFACTURING PLANT

South Gate

PRODUCT LINE

USG Joint Compound-Topping (FE 137A).

IDENTIFICATION AND PACKAGING

In 25 lb. USG Joint Compound-Topping bags.

SHIPMENTS

As directed by WCPD Merchandising, Department, LA #961.

FINISHED PRODUCT SPECIFICATIONS

Color	- Natural white, or tinted to approximately match SHEETROCK Face Paper color, as ordered.
Consistency	- 60 to 62 cc for 530+30 BB units at 75°F using the pin paddle, 75 RPM and 250 cm gm torque head on the Brabender.
pH	- 9.5 ± 0.3
Bond to Tape	- 2 minimum when dried at less than 50% RH, 75°F.
Drying Shrinkage	- Approximately 22% (from 530 BB mix).
Resistance to Cracking	- No cracking on bond test panel, nor on first fill coat on corner bead dried at 75°F, 50% RH.

- 0 -

SPECIAL BULLETIN

Operating Division PRODUCT PROCEDURE Approved: <i>[Signature]</i>	CONFIDENTIAL DO NOT REPRODUCE OR COPY USG JOINT COMPOUND-TAPPING (FE 137A) SOUTH GATE	No. 61-2-11-2-H Date 4-4-66 Page 2 Cancels <i>NEW</i> Dated																																																										
<table border="0"> <tr> <td style="vertical-align: top;"><u>FORMULA</u></td> <td style="vertical-align: top;"><u>FE 137A</u></td> </tr> <tr> <td>Gelva Powder, GP-702</td> <td>2.0 %</td> </tr> <tr> <td>B329</td> <td>2.0 %</td> </tr> <tr> <td>Santicizer 9</td> <td>.2 %</td> </tr> <tr> <td>7RFO2 Asbestos</td> <td>approx 5.0 %</td> </tr> <tr> <td>GM 65</td> <td>.8 %</td> </tr> <tr> <td>Zinc Oxide</td> <td>.1 %</td> </tr> <tr> <td>Tetra Sodium Pyrophosphate</td> <td>.1 %</td> </tr> <tr> <td>Advacide TJP</td> <td>.1 %</td> </tr> <tr> <td>Dicyandiamide</td> <td>1.0 %</td> </tr> <tr> <td>Nopco PDI</td> <td>.4 %</td> </tr> <tr> <td>WMC P85 Mica</td> <td>per 1/2 V (approx. 9.0)</td> </tr> <tr> <td>Marblewhite 325</td> <td>to make 100 % (approx 79.3)</td> </tr> </table> <table border="0"> <tr> <td style="vertical-align: top;"><u>RAW MATERIALS</u></td> <td style="vertical-align: top;"></td> </tr> <tr> <td>Gelva Powder, GP-702</td> <td>Monsanto</td> </tr> <tr> <td>B329</td> <td>A. E. Staley</td> </tr> <tr> <td>Santicizer 9</td> <td>FMS 6-98-2</td> </tr> <tr> <td>7RFO2 Asbestos</td> <td>FMS 6-14-5</td> </tr> <tr> <td>GM 65</td> <td>Dow Chemical</td> </tr> <tr> <td>Zinc Oxide</td> <td>FMS 6-94-91</td> </tr> <tr> <td>Tetra Sodium Pyrophosphate</td> <td>FMS 6-129-1</td> </tr> <tr> <td>Advacide TJP</td> <td>Carlisle Chemical Works</td> </tr> <tr> <td>Dicyandiamide</td> <td>FMS 6-44-1</td> </tr> <tr> <td>Nopco PDI</td> <td>Nopco Chemical Company</td> </tr> <tr> <td>WMC P85 Mica</td> <td>Bulletin 58-61-3</td> </tr> <tr> <td>Marblewhite 325</td> <td>FMS 6-24-1</td> </tr> </table> <table border="0"> <tr> <td style="vertical-align: top;"><u>MANUFACTURING PROCEDURE</u></td> <td style="vertical-align: top;"></td> </tr> <tr> <td colspan="2"> Per Bulletin 61-2-23 except prior to making this product, a thorough brush down of the mixer and packing equipment must be made, followed by a clean out charge of Marblewhite 325. </td> </tr> <tr> <td colspan="2" style="text-align: right;">End</td> </tr> </table>			<u>FORMULA</u>	<u>FE 137A</u>	Gelva Powder, GP-702	2.0 %	B329	2.0 %	Santicizer 9	.2 %	7RFO2 Asbestos	approx 5.0 %	GM 65	.8 %	Zinc Oxide	.1 %	Tetra Sodium Pyrophosphate	.1 %	Advacide TJP	.1 %	Dicyandiamide	1.0 %	Nopco PDI	.4 %	WMC P85 Mica	per 1/2 V (approx. 9.0)	Marblewhite 325	to make 100 % (approx 79.3)	<u>RAW MATERIALS</u>		Gelva Powder, GP-702	Monsanto	B329	A. E. Staley	Santicizer 9	FMS 6-98-2	7RFO2 Asbestos	FMS 6-14-5	GM 65	Dow Chemical	Zinc Oxide	FMS 6-94-91	Tetra Sodium Pyrophosphate	FMS 6-129-1	Advacide TJP	Carlisle Chemical Works	Dicyandiamide	FMS 6-44-1	Nopco PDI	Nopco Chemical Company	WMC P85 Mica	Bulletin 58-61-3	Marblewhite 325	FMS 6-24-1	<u>MANUFACTURING PROCEDURE</u>		Per Bulletin 61-2-23 except prior to making this product, a thorough brush down of the mixer and packing equipment must be made, followed by a clean out charge of Marblewhite 325.		End	
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SPECIAL BULLETIN

Operating Division PRODUCT PROCEDURE	USG JOINT COMPOUND - TOPPING S.W. (FE-122B)	No. 61-2-11-2-3 Date 9-26-67 Page 1
Approved: <i>JJ</i>		Cancels Dated NEW

This Bulletin expires 4-1-68.

DESCRIPTION

This non-casein topping compound is designed for both joint finishing and texturing. The white product has good hide and white color where the market practice is to texture ceilings and leave them unpainted.

MANUFACTURING PLANTS

Gypsum and Dallas

PRODUCT LINE

Joint Compounds

FINISHED PRODUCT SPECIFICATIONS

Color White, no darker than Research std. sample or pigmented to a close match with manila paper.

Consistency 64 to 67 cc

Viscosity 530 $\pm$ 30 BB units at 75 degrees F with pin paddle

pH 9.4 to 9.8 (9.6 normal)

Bond 2 minimum

IDENTIFICATION AND PACKAGING

Package in 25 lb. USG Joint Compound-Topping bags with the suffix SW to follow the code.

- 0 -

0006 1746

SPECIAL BULLETIN

Operating Division
PRODUCT PROCEDURE**CONFIDENTIAL**DO NOT REPRODUCE OR COPY
USG JOINT COMPOUND-TOPPING SM(FE-122B)No. 61-2-11-2-E
Date 9-26-67
Page 2Approved: *JG*Cancels
Dated NEWFORMULAFE-122B

GP-702	2.0%
Santicizer #9	0.2
B-329	2.0
JM7RFO2 (Mikropulverized)	About 5.0% (As Req'd)
GM-65	0.8
#9NCS	To Make 100.0%
Zinc Oxide	0.1
325 M Water Ground Mica	7.0
Tetra sodium pyrophosphate	0.1
Pyrax A	15.0%
Snowflake F	25.0
Advacide TJP	0.1
Dicyandiamide	1.0
Nopco PD-1	0.4

RAW MATERIALS

Advacide TJP	- Carlisle Chem. Wks. - New Brunswick, New Jersey
Nopco PD-1	- Nopco Chem. Co. - Chicago, Illinois

All other ingredients are standard raw materials per Bulletin 61-2-11-2-A except as follows:

Pyrax A	- PMS 6-103-1
Snowflake F	- PMS 6-24-7

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23 except prior to making this product, a thorough brushing down of the Broughton mixer must be made followed by a cleanout charge of #9NCS. Pigment to be added when required, to give as close a match as possible to manila paper.

End

N2006 1747

SPECIAL BULLETIN

Operating Division
PRODUCT PROCEDURE**CONFIDENTIAL****DO NOT REPRODUCE ON COPY**Approved: *JG*USG JOINT COMPOUND - TOPPING
(FE-95-P)No. 61-2-11-2-C
Date 5-19-67
Page 3Cancels Page 3
Dated 4-11-67FORMULA

GP-702	2.5%
B-329	2.5
Santicizer 9	.25
Vancide 51Z	.15
Tetra sodium pyrophosphate	.10
Zinc Oxide	.10
Tylose UM 4000P	.8
W.L. P85 mica	per formula V
7.F02 asbestos	as req'd for consistency
	(3.5% in lab batches)

C Marble white 325 (South Gate Only)

To make 100%

A Flo-Float J.F. (Dallas Only)

To make 100%

RAW MATERIALSGP-702
B329*Bulletin 6-104-18-1
A.E. Staley and Co. - A low viscosity,
-60 mesh starch binder.

Santicizer 9
Vancide 51 Z
Tetra Sodium Pyrophosphate
Zinc oxide
Tylose UM 4000 P
PE5 Mica
7.F02 Asbestos
Marble White 325
Flo-Float J.F.

Bulletin 6-98-2
" 6-100-1
" 6-177-4
" 6-94-91
" 6-25-5
" 6-143-3
" 6-14-5
" 6-24-1
" 6-24-9

*Raw Material Testing Procedures per FMS 12-45.

MANUFACTURING PROCEDURE

Same weighing, mixing and mikropulverizing as used for present joint compounds. Take particular care to avoid lumpy, gritty or damp ingredients in compounding this product. Equipment cleanout must be very thorough when manufacture of this topping compound follows other type compounds, especially any which contains borates or Dovicide G.

02006 1700

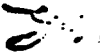
End

SPECIAL BULLETIN

Operating Division PRODUCT PROCEDURE Approved: <i>JS</i>	CONFIDENTIAL DO NOT REPRODUCE OR COPY USC JOINT COMPOUND - TOPPING (FE-97C)	No. 61-2-11-2-B Date 4-11-67 Page 2 Cancels Page 2 Dated 10-14-66																										
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* Raw Material Testing Procedures per FMS 12-45.																												
MANUFACTURING PROCEDURE Per Bulletin 61-2-23, except that a thorough brushing down followed by a clean-out charge of calcium carbonate shall be done before this product is made.																												
End																												

Originally issued 2-10-69.

SPECIAL BULLETIN

Operating Division PRODUCT PROCEDURE	USC JOINT COMPOUND-TOPPING (FE-171A)	No. 61-2-11-2-M Date 11-24-69 Page 1 Cancels Page 1 Dated 2-10-69
Approved: 		

This Bulletin expires 2-15-70.

DESCRIPTION

A non-casein topping compound which has cratering and sanding properties more equivalent to the casein (P-A-T) topping compound.

This bulletin will not be suitable for establishment on a permanent basis until the requirements on Purchase Material Specifications as listed in Section VIII, Information Bulletin 303, have been complied with.

MANUFACTURING PLANTS

C Chamblee, Dallas, Gypsum, New Brighton and South Gate

IDENTIFICATION AND PACKAGING

Bags per Bulletin 7-16-11-2. The letters MT are to follow the production code number.

A Central and Southern Divisions - to be shipped on all orders for SW Topping - Pigmented. On orders specifying white or unpigmented, formula FE-122B should be shipped. No special bag coding (such as SW) is needed to designate FE-171A. Except when shipped into C.C.F.D. then the letter "SV" will be substituted for the letter "SW".

C SHIPPING DISTRIBUTION

As directed by appropriate Product Manager.

00006 1846

USG JOINT COMPOUND-TOPPING

(FE-171A)

No. 61-2-11-2-M

Date 11-24-69

Page 2

Cancels Page 2

Dated 2-10-69

FINISHED PRODUCT SPECIFICATIONS

- A. Consistency - 59 to 62 cc (61 cc normal)
- B. Brabender - 530 $\pm$ 30 units @ 75°F
- C. pH - 8.2 to 8.7 (8.4 normal)
- D. Bond - 2 minimum (must be dried 24 hours at 75°F-50% RH).
Do not dry in hot room or oven
- E. Color - Pigmented to match SR face paper

- 0 -

SPECIAL BULLETIN

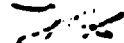
Operating Division
PRODUCT PROCEDURE

CONFIDENTIAL
DO NOT REPRODUCE OR COPY

USG JOINT COMPCUND-TOPPING (FE-171A)

No. 61-2-11-2-M
Date 11-24-69
Page 3

Cancels Page 3
Dated 2-10-69

Approved: 

FORMULA: FE-171A

Gelva Powder	1.6%
Santicizer #9	0.16
Gelvatol 20-60 BP	0.8
Crystalline Sorbitol	0.3
Glyoxal, 80% Crystalline	0.3
-50 Mesh	
Natrosol 250KX	0.8
FMA Dry Powdered (Note 1)	See Below
JM7RFO2 Asbestos	6.0 Normal
WMC P-85 Mica	.6 Formula V
Sericite Mica (Note 2)	15.0
Carbonate Filler (Note 3)	To make 100%
Ferrite Yellow	0.1

Note 1: All plants to use either 0.1% Cosan JTA-5 or 0.05% IMA SEP 10.

Note 2: All plants to use locally available Sericite Mica.

Note 3: New Brighton to use A Dolomite.
South Gate to use Marblewhite 325.
Chamblee, Dallas, and Gypsum to use #9NCS.

NP006 1R48

SPECIAL BULLETIN

Operating Division

PRODUCT PROCEDURE

Approved: *[Signature]***CONFIDENTIAL****DO NOT REPRODUCE OR COPY**

USG JOINT COMPOUND - TUFFING

FE - 154

No. 61-2-11-1-1

Date 5-7-69

Page 2

Cancels Page 2

Dated 7-12-68

FORMULAFE-154

GP-702	3.5%
Santicizer No. 9	0.35
GM-65	0.5
Ziram 95% Technical	0.1
JM 7RF02 Asbestos	As Required (3.0% in lab)
PC 7RF9 Asbestos	As Required (3.0% in lab)
P-80F Mica	2/3 Formula V
DXW Mineralite	15.0
No. 9 NCS	To make 100%

RAW MATERIALS

GP-702	PMS 6-104-18-1
Santicizer No. 9	PMS 6-98-2
GM-65	Dow Chemical Co.
Ziram 95% Technical Grade	PMS 6-100-11
JM 7RF02 Asbestos	PMS 6-14-5
PC 7RF9 Asbestos	PMS 6-14-5
P-80F Mica	PMS 6-143-1
DXW Mineralite	PMS 6-146-2
No. 9 NCS	PMS 6-24-9

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23, except that a thorough brushing and a clean-out charge of No. 9 NCS is needed before making this compound.

End

00006 1800

Operating Division

PRODUCT PROCEDURE

Approved: *J. J. J.*

CONFIDENTIAL

DO NOT REPRODUCE OR COPY

MSG JOINT COMPOUND TOPPING
(FE-150B)

No. 61-2-11-2-1

Date 5-7-69

Page 3

Cancels Page 3

Dated 11-7-68

FORMULA

FE-150B

B-329	2.0%
GF702	2.0
Santicizer #9	0.2
GM-65	0.8
C Ziram 95% Technical	0.15
-325 WMC Mica	7.0
JM7RFO2 Asbestos	As required (5.0% normal)
Pyrax A	15.0
C-95	to 100%

RAW MATERIALS

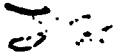
B-329	Per FMS 6-124-10
GF702	Per FMS 6-104-18-1
Santicizer #9	Per FMS 6-98-2
GM-65	Dow Chemical Co., Midland Mich.
C Ziram 95% Technical Grade	Per FMS 6-100-11
-325 WMC Mica	Per FMS 6-143-4
JM7RFO2	Per FMS 6-14-5
Pyrax A	Per FMS 6-103-1
C-95	Per FMS 6-24-9

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23. A borated compound should not be run directly before this compound. If so, a thorough clean-out of the Broughton mixer, grinder and packing lines will be necessary.

2nd

SPECIAL BULLETIN

Operating Division PRODUCT PROCEDURE	USG JOINT COMPOUND-TOPPING (FE-171A)	No. 61-2-11-2-M Date 2-10-69 Page 1 Cancels Dated NEW
Approved: 	NEW BRIGHTON AND SOUTH GATE	

This Bulletin expires 2-15-70.

DESCRIPTION

A non-casein topping compound which has cratering and sanding properties more equivalent to the casein (P-A-T) topping compound.

This bulletin will not be suitable for establishment on a permanent basis until the requirements on Purchase Material Specifications as listed in Section VIII, Information Bulletin 303, have been complied with.

MANUFACTURING PLANTS

New Brighton and South Gate

IDENTIFICATION AND PACKAGING

Bags per Bulletin 7-16-11-2. The letters WT are to follow the production code number.

SHIPPING DISTRIBUTION

As directed by Dept. #991 - Lou Tobey or L. A. #961 - P. B. Thompson.

NP006 1850

USG JOINT COMPOUND-TOPPING

(FE-171A)

NEW BRIGHTON AND SOUTH GATE

No. 61-2-11-2-11

Date 2-10-69

Page 2

Cancels

Dated NEW

FINISHED PRODUCT SPECIFICATIONS

- A. Consistency - 59 to 62 cc (61 cc normal)
- B. Brabender - 53.0 $\pm$ 30 units @ 75°F
- C. pH - 8.2 to 8.7 (8.4 normal)
- D. Bond - 2 minimum (must be dried 24 hours at 75°F-50% RH).
Do not dry in hot room or oven
- E. Color - Pigmented to match SR face paper

- 0 -

SPECIAL BULLETIN

Operating Division PRODUCT PROCEDURE Approved: <i>[Signature]</i>	CONFIDENTIAL DO NOT REPRODUCE OR COPY USG JOINT COMPOUND-TOPPING (FE-171A) NEW BRIGHTON AND SOUTH GATE	No. 61-2-11-2-M Date 2-10-69 Page 3 Cancels Dated NEW																										
<u>FORMULA:</u> FE-171A <table border="0"> <tr> <td>Gelva Powder</td> <td>1.6%</td> </tr> <tr> <td>Santicizer #9</td> <td>0.16</td> </tr> <tr> <td>Gelvatol 20-30 BF</td> <td>0.8</td> </tr> <tr> <td>Crystalline Sorbitol</td> <td>0.3</td> </tr> <tr> <td>Glyoxal, 80% Crystalline</td> <td>0.3</td> </tr> <tr> <td>-50 Mesh</td> <td></td> </tr> <tr> <td>Natrosol 250KX</td> <td>0.8</td> </tr> <tr> <td>FMA Dry Powdered (Note 1)</td> <td>See Below</td> </tr> <tr> <td>JM7RFO2 Asbestos</td> <td>6.0 Normal</td> </tr> <tr> <td>WMC P-85 Mica</td> <td>.6 Formula V</td> </tr> <tr> <td>Sericite Mica (Note 2)</td> <td>15.0</td> </tr> <tr> <td>Carbonate Filler (Note 3)</td> <td>To make 100%</td> </tr> <tr> <td>Ferrite Yellow</td> <td>0.1</td> </tr> </table> Note 1: New Brighton to use 0.1% Cosan JTA-5. South Gate to use 0.05% FMA SEP 10 Note 2: New Brighton to use Narvon CE-F-2. South Gate to use Astrocal M. Note 3: New Brighton to use A Dolomite. South Gate to use Marblewhite 325.			Gelva Powder	1.6%	Santicizer #9	0.16	Gelvatol 20-30 BF	0.8	Crystalline Sorbitol	0.3	Glyoxal, 80% Crystalline	0.3	-50 Mesh		Natrosol 250KX	0.8	FMA Dry Powdered (Note 1)	See Below	JM7RFO2 Asbestos	6.0 Normal	WMC P-85 Mica	.6 Formula V	Sericite Mica (Note 2)	15.0	Carbonate Filler (Note 3)	To make 100%	Ferrite Yellow	0.1
Gelva Powder	1.6%																											
Santicizer #9	0.16																											
Gelvatol 20-30 BF	0.8																											
Crystalline Sorbitol	0.3																											
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-50 Mesh																												
Natrosol 250KX	0.8																											
FMA Dry Powdered (Note 1)	See Below																											
JM7RFO2 Asbestos	6.0 Normal																											
WMC P-85 Mica	.6 Formula V																											
Sericite Mica (Note 2)	15.0																											
Carbonate Filler (Note 3)	To make 100%																											
Ferrite Yellow	0.1																											

7P006 1852

No. 61-2-11-2-M

Date 2-10-69

Page 4

Cancels

NEW

Dated

CONFIDENTIAL

DO NOT REPRODUCE OR COPY
USG JOINT COMPOUND-TOPPING (FE-171A)
NEW BRIGHTON AND SOUTH GATE

RAW MATERIALS

Gelva Powder 702

Santicizer #9

Gelvatol 20-30 BP

Crystalline Sorbitol
(Powder)

Glyoxal, 80% Crystalline
(-50 Mesh)

Natrosol 250KX

Cosan JTA-5

FMA SEP-10

JM7RFO2 Asbestos

WMC F-85 Mica

Narvon CE-7-2

Astrocal M

A Dolomite

Marblewhite 325

Ferrite Yellow

6-104-18-1

6-98-2

Monsanto

Local Chemical Supply House

Centerchem, Inc., New York, New York

Hercules Inc.

Cosan Chemical Corp.

Traysan Chemical

6-14-5

6-143-3

6-146-2

6-146-2

6-24-17

6-24-1

None Required

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23, except must not be made on machine used for casein compounds without a thorough brushing down and cleanout charge before batch is made.

END

UP006 1853

Operating Division	CONFIDENTIAL	No. 61-2-23-X
PRODUCT PROCEDURE		Date 11-27-72
Approved:		Page 1
		Cancels NEW Dated
USG JOINT COMPOUND - TOPPING (FE-294 D)		

This bulletin expires 12-1-73.

DESCRIPTION

A non-casein topping compound which is asbestos-free.

MANUFACTURING PLANTS

Gypsum and Midway

PRODUCT LINE

Joint Compounds

IDENTIFICATION AND PACKAGING

Package in 25 pound USG Joint Compound - Topping bags with the suffix WN to follow the code.

SHIPPING DISTRIBUTION

As directed by Dept. #971.

FINISHED PRODUCT SPECIFICATIONS

- A. Consistency - 65 to 68cc (66cc normal)
- B. Brabender - 530± 30 VC-3 Brabender Units
- C. pH - 7.9 to 8.3 8.1 normal
- D. Bond - 2 minimum (must be dried 24 hours at 75°F-50%RH
Do not dry in hot room or oven.)
- E. Color - Pigmented to match manila face paper or natural white.

FORMULA

FE-294D

Gelvatol 6000	1.5%
Sorbitol (Crystalline-Powder)	.3
Soluble Glyoxal Powder	.1
Ziram	.1
Natrosol 250 HXR (SG-61)	.8
P-80F Mica	(Per Formula V)
CMC-4H1 (Note 1)	.5
Attagel 40 (Note 1)	1.5
Nopco PD #1	.1
Carbonate Filler (Note 2)	To make 100%
Ferrite Yellow (Note 3)	.1

NP007 1759

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0-5791-C 1/68 (Printed in U.S.A.)T

Originally issued 2-10-69

SPECIAL BULLETIN

3rd Extension

Operating Division

PRODUCT PROCEDURE

Approved:

CONFIDENTIAL

USG JOINT COMPOUND-TOPPING
(FE-171A)

No. 61-2-11-2-M

Date 11-1-72

Page 1

Cancels Page 1

Dated 8-11-72

This Bulletin expires 3-1-73

DESCRIPTION

A non-casein topping compound which has cratering and sanding properties more equivalent to the casein (P-A-T) topping compound.

MANUFACTURING PLANTS

Chamblee, Gypsum, Midway and South Gate

IDENTIFICATION AND PACKAGING

Bags per Bulletin 7-16-11-2. The letters WT are to follow the production code number. Exception: Midway to use letters "NV" following production code.

SHIPPING DISTRIBUTION

As directed by appropriate Product Manager.

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D-5791-C 1/68 (Printed in U.S.A.) T

C Indicates Change

11/1/72
FUELED

No. 61-2-11-2-M
Date 9-28-72
Page 4
Cancels Page 4
Dated 7-19-72

CONFIDENTIAL

USG JOINT COMPOUND-TOPPING
(FE-171A)

RAW MATERIALS

Celvatol 20-60 BP
Crystalline Sorbitol (Powder)
Glyoxal, 80% Crystalline (-50 Mesh)
Natrosol 250MX
Cosan JTA-5
FMA SEP-10
JMTRP02 Asbestos
WMC P-80-F Mica
Harvon CE-P-2
Astrocal M
Marblewhite 325
Ferrite Yellow
Vinac RP-251
Hydrated Lime

Monsanto
Local Chemical Supply House
Centerchem, Inc., New York, New York
Hercules, Inc.
Cosan Chemical Corp.
Traysan Chemical
6-14-5
6-143-1
6-146-2
6-146-2
6-24-1
None Required
6-104-18
69-3-4

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23, except must not be made on machine used for casein compounds without a thorough brushing down and cleanout charge before batch is made.

END

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C 5791-C (Back)T

C Indicates Change

NP006 181

Operating Division	CONFIDENTIAL	No. 01-2-11-2-1
PRODUCT PROCEDURE		Date 9-28-72
Approved:		Page 3
	USG JOINT COMPOUND-TOPPING (FE-171A)	Cancels Page 3 Dated 8-11-72
FORMULA: FE-171A		
Vinac RP-251	1.6%	
Gelvatol 20-60 BP	0.8	
Crystalline Sorbitol	0.3	
Clyoxal, 80% Crystalline	0.3	
-50 Mesh		
Natrosol 250KX	0.8	
Ziran	0.1	
JNTRF02 Asbestos (Note 5)	6.0 Normal	
WMC P-80-F Mica	.6 Formula V	
Sericite Mica (Note 1)	15.0	
Carbonate Filler (Note 2)	To Make 100%	
Ferrite Yellow (Note 3)	0.1	
Hydrated Lime (Note 4)	As Required	
Note 1:	All plants to use locally available Sericite Mica.	
Note 2:	South Gate to use Marblewhite 325. Chamblee to use #9NCS.	
Note 3:	South Gate to omit Ferrite Yellow.	
Note 4:	Hydrated Lime to be added if required to obtain a finished product pH of 8.3 to 8.7. Hydrated Lime at 0.1% would be the maximum required.	
Note 5:	Midway may use Carey TRF66.	
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No. 61-2-11-2-4

Date 9-25-72

Page 2

Cancels NEW

Dated

CONFIDENTIAL

USG JOINT COMPOUND - TOPPING FE-204 D

FORMULA

FE-204 D

Vinac RP-251	1.0%
Gelvatol 6000	1.0
Soluble Glyoxal Powder	0.3
Glyoxal (80% Crystalline)	0.3
Natrosol 250 KXR (SG-68)	0.5
Ziram	0.1
JMTRFO2	(as required) about 6.0%
P-80F Mica	.6 Formula V
Harvon CE-F-1	5.0
#1 Terra Alba	To make 100%

RAW MATERIALS

FE-204 D

Vinac RP-251	6-104-18
Gelvatol 6000	6-3-6
Sorbitol (Crystalline - Powder)	Atlas Chem. Chas. Pfizer
Soluble Glyoxal Powder	Centerchem Products, Inc.
(100% minus 50 mesh)	
Natrosol 250 KXR (SG-68)	6-151-13
Ziram (95% Tech. Grade)	6-100-11
JMTRFO2	6-14-5
P-80F Mica	6-143-1
Harvon CE-F-1	6-146-2
#1 Terra Alba	52-17-1

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23, except must not be made on machine used for casein compounds without a thorough brushing down and a cleanout charge before batch is made.

END

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O-5791-C (Back)T

0006 2032

Contains material formerly in Bulletin 61-2-11-2-Q Dated 12-8-70.

SPECIAL BULLETIN

Operating Division	CONFIDENTIAL USG JOINT COMPOUND - TOPPING (FE-207) NEW BRIGHTON	No. 61-2-11-2-3
PRODUCT PROCEDURE		Date 9-25-72
Approved:		Page 1
		Cancel NEW Dated
DESCRIPTION A non-casein topping joint compound. MANUFACTURING PLANT New Brighton IDENTIFICATION AND PACKAGING Bags per Bulletin 7-16-11-2. The letters <u>WT</u> are to follow the production code number. SHIPPING DISTRIBUTION As directed by Dept. #991. FINISHED PRODUCT SPECIFICATIONS A. Consistency - 59 to 62 cc (61 cc normal) for 530 $\pm$ 30 VC-3 Brabender Units. B. pH - 8.2 to 8.7 (8.4 normal). C. Bond - 2 minimum (must be dried 24 hours at 75°F - 50% R. H.). Do not dry in hot room or oven. D. Color - Pigmented to match manila face paper.		
(C) 1972 UNITED STATES GYPSUM. UNAUTHORIZED USE OR REPRODUCTION PROHIBITED.		

No. 61-2-11-2-3
Date 9-25-72
Page 2
Cancels NEW
Dated

CONFIDENTIAL

USG JOINT COMPOUND - TOPPING (FE-207)
NEW BRIGHTON

FORMULA

FE-207

Vinac NP-251	1.6%
Gelvatol 6000	.8
Soluble Glyoxal Powder	.3
Sorbitol (Crystalline - Powder)	.3
Natrosol 250 KXR (80-68)	.8
Ziram	.1
JMTRPO2	(as required) about 5.5%
Harvon CE-F-1	15.0
P-80F Mica	.6 Formula V
#1 Terra Alba	To make 100%
Ferrite Yellow	.1

RAW MATERIALS

FE-207

Vinac NP-251	6-104-18
Gelvatol 6000	6-3-6
Soluble Glyoxal Powder (100% minus 50 mesh)	Centerchem Products, Inc.
Sorbitol (Crystalline - Powder)	Chas. Pfizer, Atlas Chem.
Natrosol 250 KXR (80-68)	6-151-13
Ziram (95% Tech. Grade)	6-100-11
Harvon CE-F-1	6-146-2
P-80F Mica	6-143-1
#1 Terra Alba	52-17-1
JMTRPO2	6-14-5
Ferrite Yellow	None required.

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23, except must not be made on machine used for casein compounds without a thorough brushing down and a cleanout charge before batch is made.

END

Originally issued 3-28-72

SPECIAL BULLETIN

Operating Division

CONFIDENTIAL

PRODUCT PROCEDURE

USG JOINT COMPOUND - TOPPING
EXTENDED FORMULA (FE231C)No. 61-2-11-2-2
Date 9-8-72
Page 1
Cancels Page 1
Dated 3-28-72

Approved:

This Bulletin expires 2/1/73.

South Gate Plant to manufacture and ship, for field trials and subsequent shipments in the San Francisco Bay Area, as directed by Mr. P. B. Thompson, #961, USG Topping Compound per the following specifications:

FINISHED PRODUCT SPECIFICATIONS

Color - Natural white or pigmented to standard joint compound manila color as ordered.

Consistency - 74-78cc/100gm for 550EB per standard viscosity test, 20 min. after mixing.

pH - 8.6 - 8.9

Mixing & Application Properties - To match that of standard batch from Research.

Bond to tape - 2 min. at ideal drying conditions.

Check cracking - A slight increase over present USG Topping (FE-171)

Revet Test - to match that of FE171.

PACKAGING

In standard 25lb. USG topping. The letter "B" to follow the normal code.

A proper sticker or stencil showing an increase of normal water requirements of 17-1/2 to 18-1/2 pints should be utilized.

FORMULA

C	Vinac RP251	2.0%
D	Galvatol 6000	1.0
C	Crystalline Glyoxal	0.3
C	" Sorbitol (Powder)	0.3
	Natrosol 250KX	0.8
	CJM7RP02 Asbestos	5.0 normal
	UC210 Asbestos	2.0 normal
	Mica p-85 (2/3V)	10.5 normal
	Chromocal	15.0
	Ziram	0.1
C	MW325	To make 100% (63.0 in this case)

Note 1 - Powder defoamer, Hodas HC311, may be added at 0.1% to improve crack resistance & mixing properties.

RAW MATERIALS -

Per Bulletin 61-2-11-2-M

UC210 Asbestos

Per Bulletin 6-14-11

MANUFACTURING PROCEDURE

Per Bulletin 61-2-11-2.

END

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0-5771-C 1/68 (Printed in U.S.A.) T C Indicates Change D Indicates Deletion

00006 1875

Originally issued 2-10-69

SPECIAL BULLETIN

3rd Extension

Operating Division

CONFIDENTIAL

No. 61-2-11-2-M

Date 8-11-72

Page 1

Cancels Page 1

Dated 4-11-72

PRODUCT PROCEDURE

USG JOINT COMPOUND-TOPPING
(FE-171A)

Approved:

This Bulletin expires 3-1-73

DESCRIPTION

A non-casein topping compound which has cratering and sanding properties more equivalent to the casein (P-A-T) topping compound.

MANUFACTURING PLANTS

C Chamblee, Gypsum, Midway and South Gate

IDENTIFICATION AND PACKAGING

Bags per Bulletin 7-16-11-2. The letters WT are to follow the production code number.

SHIPPING DISTRIBUTION

As directed by appropriate Product Manager.

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0-5791-C 1/68 (Printed in U.S.A.)^T C Indicates Change

818 9006U

No. 61-2-11-2-M
Date 8-11-72
Page 2

Cancels Page 2
Dated 8-18-71

CONFIDENTIAL

USG JOINT COMPOUND-TOPPING
(FE-171A)

FINISHED PRODUCT SPECIFICATIONS

- A. Consistency - 59 to 62 cc (61 cc normal)
- B. Brabender - 530 + 30 units @ 75°F
- C. pH - 8.3 to 8.7 (8.5 normal)
- D. Bond - 2 minimum (must be dried 24 hours at 75°F-50% RH).
Do not dry in hot room or oven.
- E. Color - Pigmented to match SR face paper.

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0-5791-C (Back) T C Indicates Change

NP006 1919

Operating Division

PRODUCT PROCEDURE

Approved:

CONFIDENTIAL

USG JOINT COMPOUND-TOPPING
(FE-171A)

No. 61-2-11-2-M

Date 8-11-72

Page 3

Cancels Page 3

Dated 7-19-72

FORMULA: FE-171A

	Vinac RP-251	1.6%
	Gelvatol 20-60 BP	0.8
	Crystalline Sorbitol	0.3
	Clyoxal, 80% Crystalline	0.3
	-50 Mesh	
	Natrosol 250KX	0.8
	Ziram	0.1
C	JMTRF02 Asbestos (Note 5)	6.0 Normal
	WMC P-85 Micas	.6 Formula V
	Sericite Mica (Note 1)	15.0
	Carbonate Filler (Note 2)	To Make 100%
	Ferrite Yellow (Note 3)	0.1
C	Hydrated Lime (Note 4)	As Required
	Note 1:	All plants to use locally available Sericite Mica.
	Note 2:	South Gate to use Marblewhite 325. Chamblee to use #9HCS.
	Note 3:	South Gate to omit Ferrite Yellow.
C	Note 4:	Hydrated Lime to be added if required to obtain a finished product pH of 8.3 to 8.7. Hydrated Lime at 0.1% would be the maximum required.
A	Note 5:	Midway may use Carey 7RP66.

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0-5791-C 1/68 (Printed in U.S.A.)^T A Indicates Addition C Indicates Change

07006 1820

Operating Division		CONFIDENTIAL	No. 61-2-11-2-M
PRODUCT PROCEDURE			Date 7-19-72
Approved:			Page 3
		USG JOINT COMPOUND-TOPPING (FE-171A)	Cancels Page 3 Dated 4-11-72
FORMULA: FE-171A			
C	Vinac RP-251	1.6%	
C	Gelvatol 20-60 EP	0.8	
	Crystalline Sorbitol	0.3	
	Glyoxal, 80% Crystalline -50 Mesh	0.3	
	Natrosol 250XX	0.8	
	Ziram	0.1	
	JM7RF02 Asbestos	6.0 Normal	
	WMC P-85 Micas	.6 Formula V	
	Sericite Mica (Note 1)	15.0	
	Carbonate Filler (Note 2)	To Make 100%	
C	Ferrite Yellow (Note 3)	0.1	
C	Hydrated Lime (Note 4)	0.1 Approximately)	
	Note 1:	All plants to use locally available Sericite Mica.	
	Note 2:	South Gate to use Marblewhite 325. Chamblee to use #9HCS.	
C	Note 3:	South Gate to omit Ferrite Yellow.	
D	Note 4:	Hydrated Lime to be added if required to obtain a finished product pH of 8.6 to 9.1.	
C		Hydrated Lime at 0.1% would be the maximum required.	

72006 1922

No. 61-2-11-2-M
Date 7-19-72
Page 4
Cancels Page 4
Dated 4-11-72

CONFIDENTIAL

USG JOINT COMPOUND-TOPPING
(FE-171A)

RAW MATERIALS

D
D
Gelvatol 20-60 BP
Crystalline Sorbitol (Powder)
Glyoxal, 80% Crystalline (-50 Mesh)
Natrosol 250KX
Cosan JTA-5
PMA SEP-10
JN7RFO2 Asbestos
WMC P-85 Mica
Harvon CE-F-2
Astrocal M
Marblewhite 325
Ferrite Yellow
Vinac RP-251
Hydrated Lime

Monsanto
Local Chemical Supply House
Centerchem, Inc., New York, New York
Hercules, Inc.
Cosan Chemical Corp.
Traysan Chemical
6-14-5
6-143-3
6-146-2
6-146-2
6-24-1
None Required
6-104-18
69-3-4

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23, except must not be made on machine used for casein compounds without a thorough brushing down and cleanout charge before batch is made.

END

(C) 1972 UNITED STATES GYPSUM. UNAUTHORIZED USE OR REPRODUCTION PROHIBITED.

0-5791-C (Back)T

D Indicates Deletion

00006 1873

No. 61-2-11-2
Date 6-14-72
Page 2
Cancels Page 2
Dated 4-20-72

CONFIDENTIAL

USG JOINT COMPOUND - TOPPING S.W.
(FE-122B)

FORMULA

FE-122B

GP-702	2.0%
Santicizer #9	0.2
Staramic 329	2.0
JMTRF02 (Mikropulverized) (Note 2)	About 5.0% (As Req'd)
GM-65	0.8
#9NCS (Note 1)	To Make 100.0%
Zinc Oxide	0.1
325 M Water Ground Mica	7.0
Tetra sodium pyrophosphate	0.1
Pyrax A	15.0%
Advacide TJP (Gypsum Only)	0.1
Dicyandiamide (Gypsum Only)	1.0
Nopco PD-1	0.4
Ziram (Chamblee, Dallas and Midway Only)	0.1

NOTE 1: Midway to use Quincy #3. Gypsum to use Stonelite Filler for pigmented only.

NOTE 2: Midway to use TRF66.

RAW MATERIALS

Gelva Powder GP-702	6-104-18-1
Santicizer #9	6-98-2
Staramic 329	6-124-10
JM-7RF02	6-14-5
GM-65	Dow Chemical, Midland Mich.
#9NCS	6-24-9
Zinc Oxide	6-94-91
325 WG Mica	6-143-4
Tetra Sodium Pyrophosphate	6-177-4
Pyrax A	6-103-1
Advacide TJP	6-100-12
Dicyandiamide	6-44-1
Nopco PD-1	Nopco Chem. Co. Chicago, Ill.
Ziram	6-100-11
Quincy #3	6-24-22
Stonelite Filler	6-24-2

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23 except prior to making this product, a thorough brushing down of the Broughton mixer must be made followed by a cleanout charge of #9NCS. Pigment to be added when required, to give as close a match as possible to manila paper.

END

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0-5791-C (Back) T C Indicates Change A Indicates Addition

70006 1647

No. 61-2-11-2
Date 4-20-72
Page 2
Cancels Page 2
Dated 3-8-72

CONFIDENTIAL

USG JOINT COMPOUND - TOPPING S.W.
(FE-122B)

FORMULA

FE-122B

GP-702	2.0%
Santicizer #9	0.2
Staramic 329	2.0
C JMTRFO2 (Mikropulverized) (Note 2)	About 5.0% (As Req'd)
GM-65	0.8
#9NCS (Note 1)	To Make 100.0%
Zinc Oxide	0.1
325 M Water Ground Mica	7.0
Tetra sodium pyrophosphate	0.1
Pyrax A	15.0%
Advacide TJP (Gypsum Only)	0.1
Dicyandiamide (Gypsum Only)	1.0
Nopco PD-1	0.4
Ziram (Chamblee, Dallas and Midway Only)	0.1

NOTE 1: Midway to use Quincy #3.

A NOTE 2: Midway to use TRF66.

RAW MATERIALS

Gelva Powder GP-702	6-104-18-1
Santicizer #9	6-98-2
Staramic 329	6-124-10
JM-TRFO2	6-14-5
GM-65	Dow Chemical, Midland Mich.
#9NCS	6-24-9
Zinc Oxide	6-94-91
325 WG Mica	6-143-4
Tetra Sodium Pyrophosphate	6-177-4
Pyrax A	6-103-1
Advacide TJP	6-100-12
Dicyandiamide	6-44-1
Nopco PD-1	Nopco Chem. Co.
	Chicago, Ill.
Ziram	6-100-11
Quincy #3	6-24-22

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23 except prior to making this product, a thorough brushing down of the Broughton mixer must be made followed by a cleanout charge of #9NCS. Pigment to be added when required, to give as close a match as possible to manila paper.

END

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0-5791-C (Back)T C Indicates Change A Indicates Addition

DP006 1649

Operating Division PRODUCT PROCEDURE Approved:	CONFIDENTIAL USG JOINT COMPOUND TAPING (J - 1427C)	No. 61-2-11-1 Date 4-20-72 Page 3 Cancels Page 3 Dated 8-23-71
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FORMULA (J-1427C)

BN-13	2.0%
Staramic 329	4.0
GP-702	1.0
Gum Arabic No. 2 Tech. Grade	0.2
Santicizer #9	0.1
GM-65	0.4
Zinc Oxide	0.1
Vancide 512	0.15
C JM-TRFO2 (Note 1)	5.0 (as required)
Narvon CE-F-1	15.0
Mica JC	- (Per Formula V)
Carbonate Filler*	- (To Make 100%)
Ferrite Yellow	(Approx. 0.1 as required)

* Gypsum to use Stonelite. Midway to use Quincy #3.

A Note 1: Midway to use Carey TRF66.

RAW MATERIALS

A. BN-13*	PMS 6-124-9
B. Staramick 329*	PMS 6-124-10
C. GP-702	PMS 6-104-18-1
D. Gum Arabic	#2 Technical Grade PMS 6-62-2
E. Santicizer #9	PMS 6-98-2
F. GM-65	Dow Chemical Co.
G. Carbonate Filler (Gypsum Only)	Per PMS 6-24-2
(Midway Only)	Per PMS 6-24-22

* Raw Material Testing Procedures per PMS 12-45.

MANUFACTURING PROCEDURE

Per Bulletin 61-2-22 except a thorough brushing down, followed by a cleanout charge of carbonate filler must be run before this product is made. (No cleanout is necessary afterwards as this product will not contaminate regular casein compounds).

END

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0-5791-C 1/68 (Printed in U.S.A.) T C Indicates Change A Indicates Addition

DPCC9 0531

Operating Division	CONFIDENTIAL	No. 61-2-11-2-M																												
PRODUCT PROCEDURE		Date 4-11-72																												
Approved:		Page 3																												
		Cancels Page 3 Dated 8-18-71																												
USG JOINT COMPOUND-TOPPING (FE-171A)																														
FORMULA: FE-171A																														
<table> <tr> <td>Gelva Powder (Notes 3 and 4)</td> <td>1.6%</td> </tr> <tr> <td>Santicizer #9 (Notes 3 and 4)</td> <td>0.16</td> </tr> <tr> <td>Gelvatol 20-60 BP (Note 4)</td> <td>0.8</td> </tr> <tr> <td>Crystalline Sorbitol</td> <td>0.3</td> </tr> <tr> <td>Glyoxal, 80% Crystalline</td> <td>0.3</td> </tr> <tr> <td>-50 Mesh</td> <td></td> </tr> <tr> <td>Natrosol 250KX</td> <td>0.8</td> </tr> <tr> <td>Ziram</td> <td>0.1</td> </tr> <tr> <td>JMTRF02 Asbestos</td> <td>6.0 Normal</td> </tr> <tr> <td>WMC P-85 Micas</td> <td>.6 Formula V</td> </tr> <tr> <td>Sericite Mica (Note 1)</td> <td>15.0</td> </tr> <tr> <td>Carbonate Filler (Note 2)</td> <td>To Make 100%</td> </tr> <tr> <td>Ferrite Yellow</td> <td>0.1</td> </tr> <tr> <td>Hydrated Lime (Note 5)</td> <td>0.1</td> </tr> </table>			Gelva Powder (Notes 3 and 4)	1.6%	Santicizer #9 (Notes 3 and 4)	0.16	Gelvatol 20-60 BP (Note 4)	0.8	Crystalline Sorbitol	0.3	Glyoxal, 80% Crystalline	0.3	-50 Mesh		Natrosol 250KX	0.8	Ziram	0.1	JMTRF02 Asbestos	6.0 Normal	WMC P-85 Micas	.6 Formula V	Sericite Mica (Note 1)	15.0	Carbonate Filler (Note 2)	To Make 100%	Ferrite Yellow	0.1	Hydrated Lime (Note 5)	0.1
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Note 1:	All plants to use locally available Sericite Mica.																													
Note 2:	South Gate to use Marblewhite 325. Chamblee to use #9NCS.																													
Note 3:	Chamblee to use Vinac RP-251 @ 1.6% in place of GP-702 @ 1.6% and Santicizer #9 @ 0.16%.																													
Note 4:	South Gate to increase Gelva Powder to 1.8%, Santicizer 9 to 0.18% and Gelvatol 20-60 BP to 0.9%.																													
Note 5:	Hydrated Lime to be added if required to obtain a finished product pH of 8.6 to 9.1. Hydrated Lime at 0.1% would be the maximum required.																													
(C) 1972 UNITED STATES GYPSUM. UNAUTHORIZED USE OR REPRODUCTION PROHIBITED. 0-5791-C 1/68 (Printed in U.S.A.) T C Indicates Change																														

UP006 1R26

No. 61-2-11-2-M
Date 4-11-72
Page 4

Cancels Page 4
Dated 8-18-71

CONFIDENTIAL

USG JOINT COMPOUND-TOPPING
(FE-171A)

RAW MATERIALS

Gelva Powder 702	6-104-18-1
Santicizer #9	6-98-2
Gelvitol 20-60 BP	Monsanto
Crystalline Sorbitol (Powder)	Local Chemical Supply House
Glyoxal, 80% Crystalline (-50 Mesh)	Centerchem, Inc., New York, New York
Natrosol 250KX	Hercules, Inc.
Cosan JTA-5	Cosan Chemical Corp.
PMA SEP-10	Traysan Chemical
JNTRFO2 Asbestos	6-14-5
WMC P-85 Mica	6-143-3
Narvon CE-F-2	6-146-2
Astrocal M	6-146-2
Marblewhite 325	6-24-1
Ferrite Yellow	None Required
Vinac RP-251	6-104-18
Hydrated Lime	69-3-4

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23, except must not be made on machine used for casein compounds without a thorough brushing down and cleanout charge before batch is made.

END

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0-5791-C (Back) T D Indicates Deletion

NP006 1827

SPECIAL BULLETIN

Operating Division	USG JOINT COMPOUND - TOPPING (FE-207)	No. 61-2-11-2-3
PRODUCT PROCEDURE		Date -12-8-70
Approved: <i>[Signature]</i>	NEW BRIGHTON	Page 1
		Cancel NEW
		Dated

This bulletin expires 12-1-71.

DESCRIPTION

A non-casein topping joint compound.

MANUFACTURING PLANT

New Brighton

IDENTIFICATION AND PACKAGING

Bags per Bulletin 7-16-11-2. The letters WT are to follow the production code number.

SHIPPING DISTRIBUTION

As directed by Dept. #991

FINISHED PRODUCT SPECIFICATIONS

- A. Consistency - 59 to 62 cc (61 cc normal) for 530 $\pm$ 30 VC-3
Brabender Units.
- B. pH - 8.2 to 8.7 (8.4 normal)
- C. Bond - 2 minimum (must be dried 24 hours at 75°F - 50%
R. H.) Do not dry in hot room or oven.
- D. Color - Pigmented to match manila face paper.

95112-12-21

NP006 7020

special bulletin

Operating Division PRODUCT PROCEDURE Approved: <i>[Signature]</i>	CONFIDENTIAL DO NOT REPRODUCE OR COPY USG JOINT COMPOUND - TOPPING (FE-207) NEW BRIGHTON	No. 61-2-11-2-Q Date 12-8-70 Page 2 Cancels NEW Dated						
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <u>FORMULA</u> GP-702 Santicizer #9 Gelvatol 20 - 60 BP Glyoxal (80% Crystalline) Sorbitol (Crystalline - powder) Natrosol 250 KKR (SG-68) Ziram JM7RFO2 Narvon CE-F-1 P-80F Mica #1 Terra Alba Ferrite Yellow </td> <td style="width: 50%; vertical-align: top;"> <u>FE-207</u> 1.6 % .16 .8 .3 .3 .8 .1 (as required) about 5.5% 15.0 .6 Formula V To make 100% .1 </td> </tr> <tr> <td style="vertical-align: top;"> <u>RAW MATERIALS</u> GP-702 Santicizer #9 Gelvatol 20 - 60 BP Glyoxal (80% Crystalline) (100% minus 50 mesh) Sorbitol (Crystalline - powder) Natrosol 250 KKR (SG-68) Ziram (95% Tech. Grade) Narvon CE-F-1 P-80F Mica #1 Terra Alba JM7RFO2 Ferrite Yellow </td> <td style="vertical-align: top;"> <u>FE-207</u> 6-104-18-1 6-98-2 Monsanto Co. Centerchem, Inc. Chas Pfizer, Atlas Chem. 6-151-13 6-100-11 6-146-2 6-143-1 52-17-1 6-14-5 None required. </td> </tr> <tr> <td colspan="2" style="vertical-align: top;"> <u>MANUFACTURING PROCEDURE</u> Per Bulletin 61-2-23, except must not be made on machine used for casein compounds without a thorough brushing down and a cleanout charge before batch is made. </td> </tr> </table>			<u>FORMULA</u> GP-702 Santicizer #9 Gelvatol 20 - 60 BP Glyoxal (80% Crystalline) Sorbitol (Crystalline - powder) Natrosol 250 KKR (SG-68) Ziram JM7RFO2 Narvon CE-F-1 P-80F Mica #1 Terra Alba Ferrite Yellow	<u>FE-207</u> 1.6 % .16 .8 .3 .3 .8 .1 (as required) about 5.5% 15.0 .6 Formula V To make 100% .1	<u>RAW MATERIALS</u> GP-702 Santicizer #9 Gelvatol 20 - 60 BP Glyoxal (80% Crystalline) (100% minus 50 mesh) Sorbitol (Crystalline - powder) Natrosol 250 KKR (SG-68) Ziram (95% Tech. Grade) Narvon CE-F-1 P-80F Mica #1 Terra Alba JM7RFO2 Ferrite Yellow	<u>FE-207</u> 6-104-18-1 6-98-2 Monsanto Co. Centerchem, Inc. Chas Pfizer, Atlas Chem. 6-151-13 6-100-11 6-146-2 6-143-1 52-17-1 6-14-5 None required.	<u>MANUFACTURING PROCEDURE</u> Per Bulletin 61-2-23, except must not be made on machine used for casein compounds without a thorough brushing down and a cleanout charge before batch is made.	
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END

90004 1866

SPECIAL BULLETIN

Operating Division		CONFIDENTIAL DO NOT REPRODUCE OR COPY	No. 61-2-11-2-M
PRODUCT PROCEDURE			Date 8-6-70
Approved: <i>[Signature]</i>			Page 3
USG JOINT COMPOUND-TOPPING (FE-171A)			Cancels Page 3 Dated 11-24-69

FORMULA: FE-171A

	Gelva Powder	1.6%
	Santicizer #9	0.16
	Gelvatol 20-60 BP	0.8
	Crystalline Sorbitol	0.3
	Glyoxal, 80% Crystalline	0.3
	-50 Mesh	
	Natrosol 250KX	0.8
C	Ziram	0.1
	JM7RFO2 Asbestos	6.0 Normal
	WMC P-85 Mica	.6 Formula V
#	Sericite Mica (Note 1)	15.0
#	Carbonate Filler (Note 2)	To Make 100%
	Ferrite Yellow	0.1
D		
#	Note 1:	All plants to use locally available Sericite Mica.
#	Note 2:	New Brighton to use A Dolomite. South Gate to use Marblewhite 325. Chamblee and Gypsum to use #9HCS.
C		

NP006 1842

SPECIAL BULLETIN

Operating Division PRODUCT PROCEDURE Approved: <i>JZ</i>	CONFIDENTIAL DO NOT REPRODUCE OR COPY USC JOINT COMPOUND - TOPPING (FE-97C)	No. 61-2-11-2-B Date 10-14-66 Page 2 Cancels Dated NEW																								
<table> <thead> <tr> <th><u>FORMULA</u></th> <th><u>FE-97C</u></th> </tr> </thead> <tbody> <tr> <td>GP-702</td> <td>2.5%</td> </tr> <tr> <td>Santicizer No. 9</td> <td>0.25</td> </tr> <tr> <td>B-329</td> <td>2.5</td> </tr> <tr> <td>Advacide TJP</td> <td>0.1</td> </tr> <tr> <td>Dicyandiamide</td> <td>1.0</td> </tr> <tr> <td>JM 7RPO2 Asbestos</td> <td>As req'd (about 4% in lab)</td> </tr> <tr> <td>P-85 Mica</td> <td>Formula V</td> </tr> <tr> <td>GM-65</td> <td>0.8</td> </tr> <tr> <td>Zinc Oxide</td> <td>0.1</td> </tr> <tr> <td>Tetrasodium Pyrophosphate</td> <td>0.1</td> </tr> <tr> <td>No. 9 NCS</td> <td>To make 100%</td> </tr> </tbody> </table>			<u>FORMULA</u>	<u>FE-97C</u>	GP-702	2.5%	Santicizer No. 9	0.25	B-329	2.5	Advacide TJP	0.1	Dicyandiamide	1.0	JM 7RPO2 Asbestos	As req'd (about 4% in lab)	P-85 Mica	Formula V	GM-65	0.8	Zinc Oxide	0.1	Tetrasodium Pyrophosphate	0.1	No. 9 NCS	To make 100%
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No. 9 NCS	Per FMS 6-24-9																									
<u>MANUFACTURING PROCEDURE</u> Per Bulletin 61-2-23, except that a thorough brushing down followed by a clean-out charge of calcium carbonate shall be done before this product is made. End																										

SPECIAL BULLETIN

Operating Division PRODUCT PROCEDURE Approved: <i>JEP</i>	CONFIDENTIAL DO NOT REPRODUCE OR COPY USG JOINT COMPOUND - TOPPING (FJ-95-P)	No. 61-2-11-2-C Date 11-10-66 Page 3 Cancels Dated NEW																																										
<u>FORMULA</u> <table> <tr><td>GP-702</td><td>2.5%</td></tr> <tr><td>B-329</td><td>2.5</td></tr> <tr><td>Santicizer 9</td><td>.25</td></tr> <tr><td>Vancide 51Z</td><td>.15</td></tr> <tr><td>Tetra sodium pyrophosphate</td><td>.10</td></tr> <tr><td>Zinc Oxide</td><td>.10</td></tr> <tr><td>Tylose UM 4000P</td><td>.8</td></tr> <tr><td>W.L. P85 mica</td><td>per formula V</td></tr> <tr><td>73FO2 asbestos</td><td>as req'd for consistency</td></tr> <tr><td></td><td>(3.5% in lab batches)</td></tr> <tr><td>Marble white 325</td><td>To make 100%</td></tr> </table> <u>RAW MATERIALS</u> <table> <tr><td>GP-702</td><td>Bulletin 6-104-18-1</td></tr> <tr><td>B329</td><td>A.E. Staley and Co. - A low viscosity, -60 mesh starch binder.</td></tr> <tr><td>Santicizer 9</td><td>Bulletin 6-98-2</td></tr> <tr><td>Vancide 51 Z</td><td>" 6-100-1</td></tr> <tr><td>Tetra Sodium Pyrophosphate</td><td>" 6-177-4</td></tr> <tr><td>Zinc oxide</td><td>" 6-94-91</td></tr> <tr><td>Tylose UM 4000 P</td><td>" 6-25-5</td></tr> <tr><td>P85 Mica</td><td>" 6-143-3</td></tr> <tr><td>73FO2 Asbestos</td><td>" 6-14-5</td></tr> <tr><td>Marble White 325</td><td>" 6-24-1</td></tr> </table> <u>MANUFACTURING PROCEDURE</u> Same weighing, mixing and mikropulverizing as used for present joint compounds. Take particular care to avoid lumpy, gritty or damp ingredients in compounding this product. Equipment cleanout must be very thorough when manufacture of this topping compound follows other type compounds, especially any which contains borates or Dovicide G. End			GP-702	2.5%	B-329	2.5	Santicizer 9	.25	Vancide 51Z	.15	Tetra sodium pyrophosphate	.10	Zinc Oxide	.10	Tylose UM 4000P	.8	W.L. P85 mica	per formula V	73FO2 asbestos	as req'd for consistency		(3.5% in lab batches)	Marble white 325	To make 100%	GP-702	Bulletin 6-104-18-1	B329	A.E. Staley and Co. - A low viscosity, -60 mesh starch binder.	Santicizer 9	Bulletin 6-98-2	Vancide 51 Z	" 6-100-1	Tetra Sodium Pyrophosphate	" 6-177-4	Zinc oxide	" 6-94-91	Tylose UM 4000 P	" 6-25-5	P85 Mica	" 6-143-3	73FO2 Asbestos	" 6-14-5	Marble White 325	" 6-24-1
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Marble White 325	" 6-24-1																																											

No. 61-2-11-2
Date 10-26-71
Page 2
Cancels Page 2
Dated 8-23-71

CONFIDENTIAL

USG JOINT COMPOUND - TOPPING S.W.
(FE-122B)

FORMULA

FE-122B

	GP-702	2.0%
	Santicizer #9	0.2
C	Staramic 329	2.0
	JM7RFO2 (Mikropulverized)	About 5.0% (As Req'd)
	GM-65	0.8
	#9NCS	To Make 100.0%
	Zinc Oxide	0.1
	325 M Water Ground Mica	7.0
	Tetra sodium pyrophosphate	0.1
	Pyrax A	15.0%
	Advacide TJP (Gypsum Only)	0.1
	Dicyandiamide (Gypsum Only)	1.0
	Nopco PD-1	0.4
C	Ziram (Chamblee, Dallas and Midway Only)	0.1

RAW MATERIALS

	Gelva Powder GP-702	6-104-18-1
	Santicizer #9	6-98-2
C	Staramic 329	6-124-10
	JM-7RFO2	6-14-5
	GM-65	Dow Chemical, Midland Mich.
	#9NCS	6-24-9
	Zinc Oxide	6-94-91
	325 WG Mica	6-143-4
	Tetra Sodium Pyrophosphate	6-177-4
	Pyrax A	6-103-1
	Advacide TJP	6-100-12
	Dicyandiamide	6-44-1
	Nopco PD-1	Nopco Chem. Co.
		Chicago, Ill.
	Ziram	6-100-11

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23 except prior to making this product, a thorough brushing down of the Broughton mixer must be made followed by a cleanout charge of #9NCS. Pigment to be added when required, to give as close a match as possible to manila paper.

END

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31-0 (Rev.)

C Indicates Change

9006 1652

No. 61-2-11-2	USG JOINT COMPOUND-TOPPING SW (FE-122B)
Date 8-23-71	
Page 2	
Cancels Page 2	
Dated 7-23-70	

FORMULA

FE-122B

GP-702	2.0%
Santicizer #9	0.2
Staramick 329	2.0
JM7RF02 (Mikropulverized)	About 5.0% (As Req'd)
GM-65	0.8
#9NCS	To Make 100.0%
Zinc Oxide	0.1
325 M Water Ground Mica	7.0
Tetra sodium pyrophosphate	0.1
Pyrax A	15.0%
Advacide TJP (Gypsum Only)	0.1
Dicyandiamide (Gypsum Only)	1.0
Nopco PD-1	0.4
Ziram (Chamblee and Dallas Only)	0.1

RAW MATERIALS

Gelva Powder GP-702	6-104-18-1
Santicizer #9	6-98-2
Staramick 329	6-124-10
JM-7RF02	6-14-5
GM-65	Dow Chemical, Midland Mich.
#9NCS	6-24-9
Zinc Oxide	6-94-91
325 WG Mica	6-143-4
Tetra Sodium Pyrophate	6-177-4
Pyrax A	6-103-1
Advacide TJP	6-100-12
Dicyandiamide	6-44-1
Nopco PD-1	Nopco Chem. Co.
	Chicago, Ill.
Ziram	6-100-11

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23 except prior to making this product, a thorough brushing down of the Broughton mixer must be made followed by a cleanout charge of #9NCS. Pigment to be added when required, to give as close a match as possible to manila paper.

END

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M-5791 (Back)

C Indicates Change

1654 9006

SPECIAL BULLETIN

Operating Division PRODUCT PROCEDURE	USG JOINT COMPOUND - TOPPING FE - 204 D	No. 61-2-11-2-R Date 2-9-71 Page 1
Approved: 	Cancels NEW Dated	

~~This bulletin expires 2-1-72.~~

DESCRIPTION:

A second line, low cost non-casein topping compound for the Philadelphia area.

MANUFACTURING PLANT: New Brighton

IDENTIFICATION AND PACKAGING:

Bags per Bulletin 7-16-11-2. The letters PP are to follow the production code numbers.

SHIPPING DISTRIBUTION:

As directed in Philadelphia area by Dept. #991, Initial shipment to areas other than Philadelphia require the approval of Research.

FINISHED PRODUCT SPECIFICATIONS

- A. Consistency - 54 to 58cc (56cc normal) for 530⁺30
VC-3 Brabender Units
- B. pH - 8.2 to 8.7 (8.5 normal)
- C. Bond - 2 minimum (must be dried 24 hours at
75°F - 50% R.H.) Do not dry in hot room
or oven.
- D. Color - Pigmented to match SR face paper or natural.

- 0 -

M-8971 2034

-special bulletin-

Operating Division PRODUCT PROCEDURE Approved: <i>[Signature]</i>	CONFIDENTIAL DO NOT REPRODUCE OR COPY USG JOINT COMPOUND - TOPPING FE - 204 D	No. 61-2-11-2-R Date 2-9-71 Page 2 Cancels NEW Dated
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FORMULA GP-702 <i>ANAL RP-251</i> Santicizer-#9 Gelvatol 20-60EP- <i>6000</i> Sorbitol (Crystalline powder) <i>SOLUBLE GLYCOL POWDER</i> Glyoxal (80% Crystalline) Natrosol 250 KKR (80-68) Ziram JM7RFO2 P-80F Mica Narvon CE-F-1 #1 Terra Alba	FE-204D 1.0% 0.1 1.0 0.3 0.3 0.5 0.1 (as required) about 6.0%. .6 Formula V 5.0 To make 100%
--	--

RAW MATERIALS GP-702 <i>ANAL RP-251</i> Santicizer-#9 Gelvatol 20-60EP- <i>6000</i> Sorbitol (Crystalline-powder) Glyoxal (80% Crystalline <i>SOLUBLE GLYCOL POWDER</i>) (100% minus 50 mesh) Natrosol 250 KKR (80-68) Ziram (95% Tech. Grade) JM7RFO2 P-80F Mica Narvon CE-F-1 #1 Terra Alba	FE-204D 6-104-18-1 6-98-2 Monsanto Co. <i>1-2-6</i> Atlas Chem. Chas. Pfizer <i>PRODUCTS</i> Centerchem, Inc. 6-151-13 6-100-11 6-14-5 6-143-1 6-146-2 52-17-1
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MANUFACTURING PROCEDURE

Per Bulletin 61-2-23, except must not be made on machine used for casein compounds without a thorough brushing down and a cleanout charge before batch is made.

END

NP006 2035

Operating Division

PRODUCT PROCEDURE

Approved: *[Signature]***CONFIDENTIAL****DO NOT REPRODUCE OR COPY**100% READY MIXED JOINT COMPOUND
ALL PURPOSE - CHANGELLE

No. 61-2-24-1

Date 2-9-71

Page 3

Cancels Page 3

Dated 10-30-70

FORMULA: Je-217

	<u>% Non-Volatile</u>	<u>Lbs. (for 100 gal. batch approx.)</u>
Mica JC	(2/3 Formula V)	80 approx.
DXW Mineralite (Note 1)	30.0	240
Asbestos Floats	(as required)	24 approx.
Huber CNF Clay	10.0	80
Methyl Cellulose	0.6	6 - 6 oz.
Ferrite Yellow	(to match manila color of SHEETROCK face paper)	
#9 Marble	(to make 100%)	(to make 800 lbs. total non-volatile)
PVAc Resin Emulsion, Plasticized	5.5	73
CMP Acetate (Note 2)	-	6-1/2 oz.
Water	-	53 gals. approx.
A Troysan 174 (Note 2)	-	6-1/2 oz.

- Notes: (1) DXW Mineralite, Ser-X, or CL-F-1 Sericite may be used in pigmented Ready Mix.
C (2) See Manufacturing Procedure.

RAW MATERIALS

PVAc Resin Emulsion, Plasticized	Per Bulletin 6-104-55
Methyl Cellulose	Per Bulletin 6-25-5, 6-25-6
Solvent	Per Bulletin 6-149-3
Mica	Per Bulletin 6-143-1
DXW Mineralite	Per Bulletin 6-146-2
Asbestos 7RF9	Per Bulletin 6-7-1
Huber CNF Clay	Per Bulletin 6-36-5
#9 Georgia Marble	Per Bulletin 6-24-9
Ferrite Yellow	
CMP Acetate	Per Bulletin 6-100-5
A Troysan 174	Per Bulletin 6-100-14

No. 61-2-24-1
Date 2-9-71
Page 4
Cancels Page -
Dated 4-13-67

CONFIDENTIAL

DO NOT REPRODUCE OR COPY

USG READY MIXED JOINT COMPOUND - ALL PURPOSE

CHANGING

MANUFACTURING PROCEDURE

A. Mixing Procedure on Hockmeyer Mixer - Approx. 140 gal. batch.

Approximately 50 gallons of water are put into the Hockmeyer mixer. (The quantity of water used initially should be the smallest amount which can be used without overloading the motor when the dry materials are added). The Troysan and CMP Acetate are then added and the mixer is run for a few turns to disperse these materials. The dry materials and plasticized emulsion are then added, and the batch is mixed until all lumps are broken down and all materials thoroughly mixed. The mixer is then turned off and the viscosity of a sample is determined on a Brabender viscosimeter. Additional water, as required, is then added and the batch mixed until a smooth, homogeneous mixture is obtained. The mixer is then stopped and another sample is checked on the viscosimeter. If the viscosity is still too high, this procedure is repeated until the proper viscosity is reached.

B. Filling: All 5 gallon containers are to be filled by weight, based on the weight per gallon of each batch.

C. Adding Preservatives: Add CMP Acetate and Troysan 174 separately during mixing. Do Not Mix These Two Preservatives Together. When mixed together in concentrated form and allowed to stand, some of the mercury can precipitate from solution.

END

SPECIAL BULLETIN

Operating Division	CONFIDENTIAL	No. 61-2-11-2-S																								
PRODUCT PROCEDURE		Date 3-28-72																								
Approved:		Page 1																								
		Cancels NEW Dated																								
This Bulletin expires 2/1/73.																										
South Gate Plant to manufacture and ship, for field trials and subsequent shipments in the San Francisco Bay Area, as directed by Mr. P. B. Thompson, #961, USG Topping Compound per the following specifications: <u>FINISHED PRODUCT SPECIFICATIONS</u> Color - Natural white or pigmented to standard joint compound manila color as ordered. Consistency - 74-78cc/100gm for 550BB per standard viscosity test, 20 min. after mixing. pH - 8.6 - 8.9 Mixing & Application Properties - To match that of standard batch from Research. Bond to tape - 2 min. at ideal drying conditions. Check cracking - A slight increase over present USG Topping (FE-171) Revet Test - to match that of FE171. <u>PACKAGING</u> In standard 25lb. USG topping. The letter "B" to follow the normal code. A proper sticker or stencil showing an increase of normal water requirements of 17-1/2 to 18-1/2 pints should be utilized. <u>FORMULA</u> <table> <tbody> <tr> <td>Gelva Powder (GP7Q2)</td> <td>2.0%</td> </tr> <tr> <td>Santicizer 9</td> <td>0.2</td> </tr> <tr> <td>Gelvatol 20/60BP</td> <td>1.0</td> </tr> <tr> <td>Crystalline Glyoxal</td> <td>0.3</td> </tr> <tr> <td>" Sorbitol</td> <td>0.3</td> </tr> <tr> <td>Natrosol 250KX</td> <td>0.8</td> </tr> <tr> <td>CJMTRP02 Asbestos</td> <td>5.0 normal</td> </tr> <tr> <td>UC210 Asbestos</td> <td>2.0 normal</td> </tr> <tr> <td>Mica p-85 (2/3V)</td> <td>10.5 normal</td> </tr> <tr> <td>Chromocal</td> <td>15.0</td> </tr> <tr> <td>Ziram</td> <td>0.1</td> </tr> <tr> <td>NW325</td> <td>To make 100% (62.8 in this case)</td> </tr> </tbody> </table> Note 1 - Powder defoamer, Hodas HC311, may be added at 0.1% to improve crack resistance & mixing properties. <u>RAW MATERIALS -</u> Per Bulletin 61-2-11-2-M UC210 Asbestos Per Bulletin 6-14-11 <u>MANUFACTURING PROCEDURE</u> Per Bulletin 61-2-11-2.			Gelva Powder (GP7Q2)	2.0%	Santicizer 9	0.2	Gelvatol 20/60BP	1.0	Crystalline Glyoxal	0.3	" Sorbitol	0.3	Natrosol 250KX	0.8	CJMTRP02 Asbestos	5.0 normal	UC210 Asbestos	2.0 normal	Mica p-85 (2/3V)	10.5 normal	Chromocal	15.0	Ziram	0.1	NW325	To make 100% (62.8 in this case)
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NW325	To make 100% (62.8 in this case)																									
(C) 1972 UNITED STATES GYPSUM. UNAUTHORIZED USE OR REPRODUCTION PROHIBITED. 0-5791-C 1/68 (Printed in U.S.A.) T																										

1972-11-2-S

No. 61-2-11-2
Date 3-28-72
Page 2
Cancels Page 2
Dated 10-26-71

CONFIDENTIAL

USG JOINT COMPOUND - TOPPING S.W.
(FE-122B)

FORMULA

FE-122B

GP-702	2.0%
Santicizer #9	0.2
Staramic 329	2.0
JMTRFO2 (Mikropulverized)	About 5.0% (As Req'd)
GM-65	0.8
#9NCS (Note 1)	To Make 100.0%
Zinc Oxide	0.1
325 M Water Ground Mica	7.0
Tetra sodium pyrophosphate	0.1
Pyrax A	15.0%
Advacide TJP (Gypsum Only)	0.1
Dicyandiamide (Gypsum Only)	1.0
Nopco PD-1	0.4
Ziram (Chamblee, Dallas and Midway Only)	0.1

A NOTE 1: Midway to use Quincy #3.

RAW MATERIALS

Gelva Powder GP-702	6-104-18-1
Santicizer #9	6-98-2
Staramic 329	6-124-10
JM-TRFO2	6-14-5
GM-65	Dow Chemical, Midland Mich.
#9NCS	6-24-9
Zinc Oxide	6-94-91
325 WG Mica	6-143-4
Tetra Sodium Pyrophosphate	6-177-4
Pyrax A	6-103-1
Advacide TJP	6-100-12
Dicyandiamide	6-44-1
Nopco PD-1	Nopco Chem. Co. Chicago, Ill.
Ziram	6-100-11
Quincy #3	6-24-22

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23 except prior to making this product, a thorough brushing down of the Broughton mixer must be made followed by a cleanout charge of #9NCS. Pigment to be added when required, to give as close a match as possible to manila paper.

END

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0-5791-C (Back)T

C Indicates Change

A Indicates Addition

02006 1651

Operating Division	CONFIDENTIAL	No. 61-2-23-X
PRODUCT PROCEDURE		Date 12-17-73
	USG JOINT COMPOUND - TOPPING (7E-294 D)	Page 1
		Cancel Page 1
		Dated 7-23-73

This Bulletin expires 12-1-74.

DESCRIPTION

A non-casein topping compound which is asbestos-free.

MANUFACTURING PLANTS

Gypsum and Midway

PRODUCT LINE

Joint Compounds

IDENTIFICATION AND PACKAGING

Package in 25 pound USG Joint Compound - Topping bags with the suffix NV to follow the code.

SHIPPING DISTRIBUTION

As directed by Dept. #971.

FINISHED PRODUCT SPECIFICATIONS

- A. Consistency - 65 to 68cc (66cc normal).
- B. Brabender - 530 $\pm$ 30 VC-3 Brabender Units.
- C. pH - 7.9 to 8.3 8.1 normal.
- D. Bond - 2 minimum (must be dried 24 hours at 75°F-50%RH).
Hot room at 90°F $\pm$ 10% R.H. - 4 minimum.
- E. Color - Pigmented to match manila face paper or natural white.

NP007 1751

Operating Division <u>PRODUCT PROCEDURE</u> Approved:	CONFIDENTIAL USG JOINT COMPOUND - TOPPING (FE-294 D)	No. 61-2-23-X Date Page 1 Cancels Dated 012W																										
THIS BULLETIN EXPIRES ONE YEAR FROM DATE OF ISSUE 12-1-73 <u>DESCRIPTION</u> A non-casein topping compound which is asbestos-free. <u>MANUFACTURING PLANTS</u> Gypsum and Midway <u>PRODUCT LINE</u> Joint Compounds <u>IDENTIFICATION AND PACKAGING</u> Package in 25 pound USG Joint Compound - Topping bags with the suffix WN to follow the code <u>SHIPPING DISTRIBUTION</u> As directed by Dept. #971 <u>FINISHED PRODUCT SPECIFICATIONS</u> A. Consistency - 65 to 68cc (66cc normal) B. Brabender - 530⁺ 30 VC-3 Brabender Units C. pH - 7.9 to 8.3 8.1 normal D. Bond - 2 minimum (must be dried 24 hours at 75°F-50%RH) Do not dry in hot room or oven. E. Color - Pigmented to match manila face paper or natural white. <u>FORMULA</u> <table style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>FE-294D</u></th> </tr> </thead> <tbody> <tr> <td>Gelvatol 6000</td> <td style="text-align: right;">1.5%</td> </tr> <tr> <td>Sorbitol (Crystalline-Powder)</td> <td style="text-align: right;">.3</td> </tr> <tr> <td>Soluble Glyoxal Powder</td> <td style="text-align: right;">.1</td> </tr> <tr> <td>Ziram</td> <td style="text-align: right;">.1</td> </tr> <tr> <td>Natrosol 250 HXR (SG-61)</td> <td style="text-align: right;">.8</td> </tr> <tr> <td>P-80F Mica</td> <td style="text-align: right;">(Per Formula V)</td> </tr> <tr> <td>CMC-4H1 (note 1)</td> <td style="text-align: right;">.5</td> </tr> <tr> <td>Bentone LT</td> <td style="text-align: right;">.2</td> </tr> <tr> <td>Attagel 40 (note 1)</td> <td style="text-align: right;">1.5</td> </tr> <tr> <td>Nopco PD #1</td> <td style="text-align: right;">.1</td> </tr> <tr> <td>Carbonate Filler (note 2)</td> <td style="text-align: right;">To make 100%</td> </tr> <tr> <td>Ferrite Yellow (note 3)</td> <td style="text-align: right;">.1</td> </tr> </tbody> </table>				<u>FE-294D</u>	Gelvatol 6000	1.5%	Sorbitol (Crystalline-Powder)	.3	Soluble Glyoxal Powder	.1	Ziram	.1	Natrosol 250 HXR (SG-61)	.8	P-80F Mica	(Per Formula V)	CMC-4H1 (note 1)	.5	Bentone LT	.2	Attagel 40 (note 1)	1.5	Nopco PD #1	.1	Carbonate Filler (note 2)	To make 100%	Ferrite Yellow (note 3)	.1
	<u>FE-294D</u>																											
Gelvatol 6000	1.5%																											
Sorbitol (Crystalline-Powder)	.3																											
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Nopco PD #1	.1																											
Carbonate Filler (note 2)	To make 100%																											
Ferrite Yellow (note 3)	.1																											

NP007 1766

Operating Division

PRODUCT PROCEDURE

CONFIDENTIALUSG JOINT COMPOUND - TOPPING
(FE-171A)

No. 61-2-11-2-5

Date 9-17-73

Page 2

Cancels Page 2

Dated 7-31-73

FORMULA FE-171AMATERIAL CODEMATERIAL

65765	Vinac RP-251	1.6%
65762	Gelvatol 6000	0.8
67061	Crystalline Sorbitol	0.3
67946	Glyoxal, 80% crystalline (-59 Mesh)	0.3
66484	Natrosol 250KX	0.8
66683 or	Ziram or	
66688	Vancide MZ96	0.1
61747 or	JM7RF02 Asbestos	6.0 Normal
61682	TRF-66 (Note 4)	
61740	WMC P-80F Mica	0.6 Formula V
(Note 1)	Serecite Mica	15.0
(Note 2)	Carbonate Filler	To Make 100%
60281	Ferrite Yellow	0.1 (If Required)
(Note 3)	Hydrated Lime	As Required

Note 1:

Plants to use locally available
Serecite Mica.

61762 DXW Mineralite

61763 Harvan CEP-1

61463 Chromocal

Note 2:

61453 #9NCS Chamblee

61455 MW325 South Gate

Note 3:

61561 or 61581

Hydrated Lime to be added if re-
quired to obtain a finished prod-
uct pH of 8.3 to 8.7. Hydrated
Lime at 0.1% would be the maximum
required.

Note 4:

South Gate to use TRF-66 in
place of CJM7RF-02.

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0-5791-C Rev. 1/73 (Printed in U.S.A.) T C Indicates Change

UPN06 2047

Operating Division	CONFIDENTIAL	No. 61-2-11-2-5
PRODUCT PROCEDURE		Date 9-17-73
	USG JOINT COMPOUND - TOPPING (FE-171A)	Page 3
		Cancels Page 3
		Dated 7-31-73

RAW MATERIALS

MATERIAL CODE

MATERIAL

65765	Vinac RP-251	6-104-18
65762	Galvatol 6000	6-3-6
67061	Sorbitol - Powder	Local Chemical Supply House
		Chas. Pfizer, Atlas Chem.
67946	Glyoxal, 80% (100% -50 mesh)	Centerchem Prod. Inc.
66484	Natrosol 250KX	6-151-1
66683	Ziram	6-100-11
66688	Vancide MZ96	6-100-11
61747	JM7RPO2 Asbestos	6-14-5
61740	WMC P-80F Mica	58-61-1
60281	Ferrite Yellow	None Required
61762	DXW Mineralite	6-146-2
61763	Harvon CEF-1	6-146-2
61463	Chromocal	6-146-2
61453	#9HCS Carbonate	6-24-9
61455	MW325 Carbonate	6-24-1
61561 or	Hydrated Lime	69-3-4
61581		
61682	TRF-66 Asbestos	6-14-10

MANUFACTURING PROCEDURE

Weigh all materials accurately. Maximum permissible weight departure is 3% of the batch weight. Mix in a Broughton mixer, or Day Nauta mixer, until completely blended. Pass the batch through a Mikropulverizer using a coarse (3/32" slot width) screen. It is then ready for packaging.

USG Joint Compounds must not be made on machines used for casein compounds without a thorough brushing down and cleanout charge before batch is made.

END

Operating Division

PRODUCT PROCEDURE

CONFIDENTIAL

USG JOINT COMPOUND - TOPPING
(FE-171A)

No. 61-2-11-2-5

Date 7-31-73

Page 1

Cancels Page 1

Dated 5-30-73

DESCRIPTION

A non-casein topping compound.

MANUFACTURING PLANTS

Chamblee and South Gate

IDENTIFICATION AND PACKAGING

Bags per Bulletin 7-16-11-2 or 8-3-11-2. The letters WT are to follow the production code number.

SHIPPING DISTRIBUTION

As directed by appropriate Product Manager.

FINISHED PRODUCT SPECIFICATIONS

- C
- | | |
|----------------|--|
| A. Consistency | - 59 to 62 cc (61 cc normal) |
| | - 65 to 68 cc (67 cc normal) - For South Gate |
| | when TRF-66 Asbestos is used as a direct |
| | replacement for CJMTRF-02. |
| B. Brabender | - 530 + 30 units @ 75°F |
| C. pH | - 8.3 to 8.7 (8.5 normal) |
| D. Bond | - 2 minimum (must be dried 24 hours at 75°F-50% RH). |
| E. Color | - Natural or pigmented to match SR Face Paper. |

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0-5791-C Rev. 1/73 (Printed in U.S.A.)

C Indicates Change

6102 90000

Operating Division		CONFIDENTIAL	No. 61-2-11-2
PRODUCT PROCEDURE			Date 5-22-73
		USC JOINT COMPOUND - TOPPING S.W. (FE-122B)	Page 2 Cancels Page 2 Dated 3-22-73

FORMULA

	<u>FE-122B</u>
GP-702 (Note 3)	2.0%
Santicizer #9 (Note 3)	0.2
Staranic 329 (Note 4)	2.0
JMTRFO2 (Mikropulverized) (Note 2)	About 5.0% (As Req'd)
GM-65	0.8
#9NCS (Note 1)	To make 100.0%
Zinc Oxide	0.1
325 M Water Ground Mica	7.0
Tetra sodium pyrophosphate	0.1
C Pyrax A (Note 5)	15.0%
Nopco PD-1	0.4
C Preservative	0.1

NOTE 1: Midway to use Quincy #3. Gypsum to use Stonelite Filler for pigmented only. Dallas to use Microfill #4.

NOTE 2: Midway to use TRP66.

NOTE 3: Dallas to use Vinac RP 251 in place of GP-702 and omit santicizer #9.

NOTE 4: Dallas to use Staranic 620 @ 1.6% in place of Staranic 329 @ 2%.

A NOTE 5: Midway to use Pyrax B.

RAW MATERIALS

Gelva Powder GP-702	6-104-10-1
Santicizer #9	6-98-2
Staranic 329	6-124-10
JM-TRFO2	6-14-5
GM-65	Dow Chemical, Midland Mich.
#9NCS	6-24-9
Zinc Oxide	6-94-91
325 M Mica	6-143-4
Tetra Sodium Pyrophosphate	6-177-4
Pyrax A	6-103-1
A Pyrax B	6-103-2
Nopco PD-1	Nopco Chem. Co., Chicago, Ill.
C Preservative	6-100-11
Quincy #3	6-24-22
Stonelite Filler	6-24-2
Microfill #4	6-24-10
Vinac RP 251	6-104-18
Staranic 620	A.E. Staley Mfg. Co.

MANUFACTURING PROCEDURE

Per Bulletin 01-2-23 except prior to making this product, a thorough brushing down of the Broughton mixer must be made followed by a cleanout charge of #9NCS. Pigment to be added when required, to give as close a match as possible to manila paper.

END

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Operating Division	CONFIDENTIAL	No. 61-2-11-2
PRODUCT PROCEDURE		Date 3-22-73
		Page 2
		Cancel Page 2
		Dated 3-2-73

FORMULA

FE-122B

C	GP-702 (Note 3)	2.0%
C	Santicizer #9 (Note 3)	0.2
C	Staramic 329 (Note 4)	2.0
	JM7RPO2 (Mikropulverized) (Note 2)	About 5.0% (As Req'd)
	GM-65	0.8
	#9NCS (Note 1)	To make 100.0%
	Zinc Oxide	0.1
	325 M Water Ground Mica	7.0
	Tetra sodium pyrophosphate	0.1
	Pyrax A	15.0%
	Nopco PD-1	0.4
	Ziram	0.1

NOTE 1: Midway to use Quincy #3. Gypsum to use Stonelite Filler for pigmented only. Dallas to use Microfill #4.

NOTE 2: Midway to use TRF66.

A NOTE 3: Dallas to use Vinac RP 251 in place of GP-702 and omit santicizer #9.

A NOTE 4: Dallas to use Staramic 620 @ 1.6% in place of Staramic 329 @ 2%.

RAW MATERIALS

	Gelva Powder GP-702	6-104-18-1
	Santicizer #9	6-98-2
	Staramic 329	6-124-10
	JM-TRPO2	6-14-5
	GM-65	Dov Chemical, Midland Mich.
	#9NCS	6-24-9
	Zinc Oxide	6-94-91
	325 WG Mica	6-143-4
	Tetra Sodium Pyrophate	6-177-4
	Pyrax A	6-103-1
	Nopco PD-1	Nopco Chem. Co., Chicago, Ill.
	Ziram	6-100-11
	Quincy #3	6-24-22
	Stonelite Filler	6-24-2
	Microfil #4	6-24-10
A	Vinac RP 251	6-104-18
A	Staramic 620	A.E. Staley Mfg. Co.

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23 except prior to making this product, a thorough brushing down of the Broughton mixer must be made followed by a cleanout charge of #9NCS. Pigment to be added when required, to give as close a match as possible to manila paper.

END

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0-5791-C Rev. 1/73 (Printed in U.S.A.) T C Indicates Change A Indicates Addition

Cancels Temporary Bulletin 61-2-11-2-M Dated 11-1-72.

Operating Division

PRODUCT PROCEDURE

CONFIDENTIAL

USG JOINT COMPOUND - TOPPING
(FE-171A)

No. 61-2-11-2-5
Date 3-13-73
Page 1
Cancels NEW
Dated

DESCRIPTION

A non-casein topping compound.

MANUFACTURING PLANTS

Chamblee and South Gate

IDENTIFICATION AND PACKAGING

Bags per Bulletin 7-16-11-2. The letters WT are to follow the production code number.

SHIPPING DISTRIBUTION

As directed by appropriate Product Manager.

FINISHED PRODUCT SPECIFICATIONS

- | | |
|----------------|--|
| A. Consistency | - 59 to 62 cc (61 cc normal) |
| B. Brabender | - 530 $\pm$ 30 units @ 75°F |
| C. pH | - 8.3 to 8.7 (8.5 normal) |
| D. Bond | - 2 minimum (must be dried 24 hours at 75°F-50% RH). |
| E. Color | - Natural or pigmented to match SR Face Paper. |

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0-5791-C Rev. 1/73 (Printed in U.S.A.)T

UP006 2054

Operating Division	CONFIDENTIAL	No. 61-2-11-2-5
PRODUCT PROCEDURE		Date 3-13-73
	USG JOINT COMPOUND - TOPPING (FE-171A)	Page 2
		Replaces NEW
		Dated

FORMULA FE-171A

MATERIAL CODE	MATERIAL	
65765	Minac RP-251	1.6%
65762	Galvatol 6000BP	0.8
67061	Crystalline Sorbitol	0.3
67946	Glyoxal, 80% crystalline (-59 Mesh)	0.3
66484	Natrosol 250KX	0.8
66683 or	Ziram or	
66688	Vandide MZ96	0.1
61747	JMTRF02 Asbestos	6.0 Normal
61740	WMC P-80P Mica	0.6 Formula V
(Note 1)	Serecite Mica	15.0
(Note 2)	Carbonate Filler	To Make 100%
60281	Ferrite Yellow	0.1 (If Required)
(Note 3)	Hydrated Lime	As Required

Note 1: Plants to use locally available
Serecite Mica.
61762 DXW Mineralite
61763 Harvan CEP-1
61463 Chromocal

Note 2: 61453 #9NCS Chamblee
61455 MW325 South Gate

Note 3: 61561 or 61581
Hydrated Lime to be added if re-
quired to obtain a finished prod-
uct pH of 8.3 to 8.7. Hydrated
Lime at 0.1% would be the maximum
required.

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0-5791-C Rev. 1/73 (Printed in U.S.A.)T

00004 2055

Operating Division	CONFIDENTIAL	No. 61-2-11-2
PRODUCT PROCEDURE		Date 3-2-73
		Page 2
		Cancel Page 2
		Dated 1-24-73

USG JOINT COMPOUND - TOPPING S.W.
(FE-122B)

FORMULA

FE-122B

GP-702	2.0%
Santicizer #9	0.2
Staramic 329	2.0
JMTRPO2 (Mikropulverized) (Note 2)	About 5.0% (As Req'd)
GM-65	0.8
#9NCS (Note 1)	To make 100.0%
Zinc Oxide	0.1
325 M Water Ground Mica	7.0
Tetra sodium pyrophosphate	0.1
Pyrax A	15.0%
Nopco PD-1	0.4
Ziram	0.1

NOTE 1: Midway to use Quincy #3. Gypsum to use Stonelite Filler for pigmented only. Dallas to use Microfill #4.

NOTE 2: Midway to use TRF66.

RAW MATERIALS

Gelva Powder GP-702	6-104-18-1
Santicizer #9	6-98-2
Staramic 329	6-124-10
JM-TRPO2	6-14-5
GM-65	Dow Chemical, Midland Mich.
#9NCS	6-24-9
Zinc Oxide	6-94-91
325 WG Mica	6-143-4
Tetra Sodium Pyrophosphate	6-177-4
Pyrax A	6-103-1
Nopco PD-1	Nopco Chem. Co. Chicago, Ill.
Ziram	6-100-11
Quincy #3	6-24-22
Stonelite Filler	6-24-2
Microfill #4	6-24-10

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23 except prior to making this product, a thorough brushing down of the Broughton mixer must be made followed by a cleanout charge of #9NCS. Pigment to be added when required, to give as close a match as possible to manila paper.

END

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0-5791-C Rev. 1/73 (Printed in U.S.A.) T D Indicates Deletion C Indicates Change

Operating Division	CONFIDENTIAL	No. 61-2-11-2
PRODUCT PROCEDURE		Date 1-24-73
		Page 2
		Cancels Page 2
		Dated 6-14-72
USG JOINT COMPOUND - TOPPING S.W. (FE-122B)		

FORMULA

FE-122B

GP-702	2.0%
Santicizer #9	0.2
Staramic 329	2.0
JM7RPO2 (Mikropulverized) (Note 2)	About 5.0% (As Req'd)
GM-65	0.8
#9NCS (Note 1)	To Make 100.0%
Zinc Oxide	0.1
325 M Water Ground Mica	7.0
Tetra sodium pyrophosphate	0.1
Pyrax A	15.0%
Advacide TJP (Gypsum Only)	0.1
Dicyandiamide (Gypsum Only)	1.0
Nopco PD-1	0.4
Ziram (Chamblee, Dallas and Midway Only)	0.1

NOTE 1: Midway to use Quincy #3. Gypsum to use Stonelite Filler for pigmented only. Dallas to use Microfill #4.

NOTE 2: Midway to use TRP66.

RAW MATERIALS

Gelva Powder GP-702	6-104-18-1
Santicizer #9	6-98-2
Staramic 329	6-124-10
JM-TRPO2	6-14-5
GM-65	Dow Chemical, Midland Mich.
#9NCS	6-24-9
Zinc Oxide	6-94-91
325 WG Mica	6-143-4
Tetra Sodium Pyrophosphate	6-177-4
Pyrax A	6-103-1
Advacide TJP	6-100-12
Dicyandiamide	6-44-1
Nopco PD-1	Nopco Chem. Co. Chicago, Ill.
Ziram	6-100-11
Quincy #3	6-24-22
Stonelite Filler	6-24-2
Microfill #4	6-24-10

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23 except prior to making this product, a thorough brushing down of the Broughton mixer must be made followed by a cleanout charge of #9NCS. Pigment to be added when required, to give as close a match as possible to manila paper.

END

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0-5791-C Rev. 1/73 (Printed in U.S.A.) T C Indicates Change A Indicates Addition

000000 14791

SPECIAL BULLETIN

Operating Division	CONFIDENTIAL	No. 61-2-11-2-V
PRODUCT PROCEDURE		Date 12-24-74
	USG JOINT COMPOUND TOPPING FORMULA FE-377B	Page 1
		Cancel Page 1
		Dated 7-22-74

This bulletin expires 8-1-75.

DESCRIPTION

A low cost powder topping compound with good texturing properties.
Field tests and subsequent shipments into CCPD as directed by Dept. #971-C.

MANUFACTURING PLANTS

Gypsum, Midway and Dallas

IDENTIFICATION AND PACKAGING

In USG Joint Compound-Toppings bags per Bulletin 7-16-11-2 or 8-3-11-2
with the suffix LC (SW) to follow the code.

FINISHED PRODUCT SPECIFICATIONS

Color - Natural White
Consistency - 52 to 55 c.c. per 100 gms.
Brabender - 530 + 30 units with pin paddle
pH - 8.4 to 8.8 (8.6 normal)
Bond - 2 minimum

FORMULA

*R/M #		%
65760	Gelva Powder 702 (Note 3)	1.5%
65762	Gelvatol 6000	0.5
66458	Methocel 228	0.5
66688 or	Vancide MZ-96 or	0.1
66683	Ziram (Note 2)	
61741 or	TRFO2 or	About 5.0%
61682	TRF66 Asbestos	
61747	P-80F Mica	5.0
67061	Sorbitol	0.3
67946	Glyoxal	0.3
- - -	Carbonate Filler (Note 1)	To make 100%

NOTE 1: Midway to use Quincy #3 (61463), Dallas Microfil #4 (61466) and Gypsum #9NCS (61453).

NOTE 2: CAUTION - May cause irritation of eyes, nose, throat and skin. May be harmful if inhaled or swallowed. Avoid breathing dust or spray mist. Avoid contact with eyes, skin or clothing. In case of contact, flush with plenty of water. For eyes, get medical attention. Keep away from fire and sparks. Do not reuse empty container. Destroy by perforating or crushing. Bury or discard in a safe place.

NOTE 3: Dallas may use Vinac RP-251 (65765) as an alternate.

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0-5791-C Rev. 1/74 (Printed in U.S.A.)T

- General Revision

NP006 1986

Operating Division	CONFIDENTIAL	No. 61-2-11-2-V
PRODUCT PROCEDURE		Date 12-24-74
		Page 2
		Cancels Page 2
		Dated 7-22-74

USG JOINT COMPOUND TOPPING
FORMULA FE-377B

RAW MATERIALS

	Per
A Vinac NP-251	PMS 6-104-18
Gelva Powder 702	PMS 6-104-18-1
Gelvatol 6000	PMS 6-3-6
Methocel 228	PMS 6-151-16
Vancide NZ-96 or	PMS 6-100-11
Ziram	PMS 6-100-11
Asbestos TRF02 or	PMS 6-14-10
Asbestos TRF66	PMS 6-14-10
P-80F Mica	PMS 6-143-1
Sorbitol - Crystalline	Atlas Chemical
Glyoxal 80% - Crystalline	PMS 6-66-1
<u>Carbonate Filler</u>	
#9NCS	PMS 6-24-9
Quincy #3	PMS 6-24-22
Microfil #4	PMS 6-24-10

MANUFACTURING PROCEDURE

Per bulletin 61-2-11-2.

END.

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0-5791-C Rev. 1/74 (Printed in U.S.A.)T

A Indicates Addition

00006 1887

Operating Division	CONFIDENTIAL	No. 61-2-11-2-5
PRODUCT PROCEDURE		Date 7-22-74
		Page 2
		Replaces Page 2
		Dated 9-17-73
USG JOINT COMPOUND - TOPPING (FE-171A)		

FORMULA FE-171A

	<u>MATERIAL CODE</u>	<u>MATERIAL</u>	
C	65765	Vinac RP-251 or	1.6%
A	65777	RS 6402	
	65762	Gelvatol 6000	0.8
	67061	Crystalline Sorbitol	0.3
C	67946	Glyoxal, 80% crystalline (-59 Mesh)	0.25
	66484	Natrosol 250NX	0.8
	66683 or	Ziram or	
	66688	Vancide MZ96	0.1
	61747 or	JMTRF02 Asbestos	6.0 Normal
	61682	TRF-66 (Note 4)	
	61740	WMC P-80F Mica	0.6 Formula V
	(Note 1)	Serecite Mica	15.0
C	(Note 2)	Filler	To Make 100%
	60281	Ferrite Yellow	0.1 (If Required)
	(Note 3)	Hydrated Lime	As Required

Note 1: Plants to use locally available Serecite Mica.

61762 DXW Mineralite
61763 Narvan CEF-1
61463 Chromocal

Note 2:

61453 #9NCS Chamblee
61455 MW325 South Gate
61457 Land Plaster-Bulk - South Gate

Note 3: 61561 or 61581 Hydrated Lime to be added if required to obtain a finished product pH of 8.3 to 8.7. Hydrated Lime at 0.1% would be the maximum required.

Note 4: South Gate to use TRF-66 in place of CJMTRF-02.

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0-5791-C Rev. 1/74 (Printed in U.S.A.)T

C Indicates Change

A Indicates Addition

OP006 2040

Operating Division

PRODUCT PROCEDURE

CONFIDENTIAL

USG JOINT COMPOUND - TOPPING
(FE-171A)

No. 61-2-11-2-5
Date 7-22-74
Page 3
Cancels Page 3
Dated 11-20-73

RAW MATERIALS

Material

Vinac RP-251
RS 6402
Gelvatol 6000
Sorbitol - Powder

Glyoxal, 80% (100% - 50 mesh)

Natrosol 250KX

Ziran

Vancide MZ96

PI7TRFO2 Asbestos

WMC P-80F Mica

Ferrite Yellow

DXW Minecoalite

Narvon CEF-1

Choomotal

#9HCS Carbonate

MW325 Carbonate

Hydrated Lime

TRF-66 Asbestos

Land Plaster - Bulk

Per

6-104-18

Monsanto Chem. Co.

6-3-6

Local Chemical Supply House

Chas. Pfizer, Atlas Chem.

6-66-1

6-151-1

6-100-11

6-100-11

6-14-5

58-61-1

None Required

6-146-2

6-146-2

6-146-2

6-24-9

6-24-1

69-3-4

6-14-10

Plaster City

MANUFACTURING PROCEDURE

Weigh all materials accurately. Maximum permissible weight departure is 3% of the batch weight. Mix in a Broughton mixer, or Day Nauta mixer, until completely blended. Pass the batch through a Mikropulverizer using a coarse (3/36" slot width) screen. It is then ready for packaging.

USG Joint Compounds must not be made on machines used for casein compounds without a thorough brushing down and cleanout charge before batch is made.

END.

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O-5791-C Rev. 1/74 (Printed in U.S.A.)T

General Revision

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Operating Division

PRODUCT PROCEDURE

CONFIDENTIALUSG JOINT COMPOUND - TOPPING S.W.
(FE-122B)

No. 61-2-11-2

Date ~~4-20-74~~

Page 2

Cancels Page 2

Dated ~~5-22-75~~FORMULA

	FE-122B
GP-702 (Note 3)	2.0%
Santicizer #9 (Note 3)	0.2
Staramic 329 (Note 4)	2.0
JMTRF02 (Mikropulverized)(Note 2)	About 5.0% (As Req'd)
GM-65	0.8
#9NCS (Note 1)	To make 100.0%
Zinc Oxide	0.1
P-80F Mica	7.0
Tetra sodium pyrophosphate	0.1
Pyrax A (Note 5)	15.0%
Nopco PD-1	0.4
Preservative	0.1

- NOTE 1: ~~Midway~~ ^{East Chicago} to use Quincy #3. Gypsum to use Stonelite Filler for pigmented only. ~~Dallas to use Microfill #4.~~
- NOTE 2: ~~Midway~~ ^{East Chicago} to use 7RF66.
- NOTE 3: ~~Dallas to use Vinac RP 251 in place of GP-702 and omit santicizer #9.~~
- NOTE 4: ~~Dallas to use Staramic 620 @ 1.6% in place of Staramic 329 @ 2%.~~
- NOTE 5: ~~Midway~~ ^{East Chicago} to use Pyrax B.

RAW MATERIALS

Gelva Powder GP-702	6-104-18-1
Santicizer #9	6-98-2
Staramic 329	6-124-10
JM-TRF02	6-14-5
GM-65	Dow Chemical, Midland Mich.
#9NCS	6-24-9
Zinc Oxide	6-94-91
P-80F Mica	58-61-1
Tetra Sodium Pyrophosphate	6-177-4
Pyrax A	6-103-1
Pyrax B	6-103-2
Nopco PD-1	Nopco Chem. Co., Chicago, Ill.
Preservative	6-100-11
Quincy #3	6-24-22
Stonelite Filler	6-24-2
Microfill #4	6-24-10
Vinac RP 251	6-104-18
Staramic 620	A.E. Staley Mfg. Co.

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23 except prior to making this product, a thorough brushing down of the Broughton mixer must be made followed by a cleanout charge of #9NCS. Pigment to be added when required, to give as close a match as possible to manila paper.

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0-5791-C Rev. 1/74 (Printed in U.S.A.) T C Indicates Change

UP006 1629

Operating Division

PRODUCT PROCEDURE

CONFIDENTIALUSC JOINT COMPOUND - TOPPING S.W.
(FE-122B)

No. 61-2-11-2

Date 4-26-74

Page 2

Cancels Page 2

Dated 5-22-73

FORMULA

	FE-122B
GP-702 (Note 3)	2.0%
Santicizer #9 (Note 3)	0.2
Staramic 329 (Note 4)	2.0
JMTRF02 (Mikropulverized)(Note 2)	About 5.0% (As Req'd)
GM-65	0.8
#9NCS (Note 1)	To make 100.0%
Zinc Oxide	0.1
P-80F Mica	7.0
Tetra sodium pyrophosphate	0.1
Pyrax A (Note 5)	15.0%
Nopco PD-1	0.4
Preservative	0.1

NOTE 1: Midway to use Quincy #3. Gypsum to use Stonelite Filler for pigmented only. Dallas to use Microfill #4.

NOTE 2: Midway to use 7RF66.

NOTE 3: Dallas to use Vinac RP 251 in place of GP-702 and omit santicizer #9.

NOTE 4: Dallas to use Staramic 620 @ 1.6% in place of Staramic 329 @ 2%.

NOTE 5: Midway to use Pyrax B.

RAW MATERIALS

Gelva Powder GP-702	6-104-18-1
Santicizer #9	6-98-2
Staramic 329	6-124-10
JM-7RF02	6-14-5
GM-65	Dow Chemical, Midland Mich.
#9NCS	6-24-9
Zinc Oxide	6-94-91
P-80F Mica	58-61-1
Tetra Sodium Pyrophosphate	6-177-4
Pyrax A	6-103-1
Pyrax B	6-103-2
Nopco PD-1	Nopco Chem. Co., Chicago, Ill.
Preservative	6-100-11
Quincy #3	6-24-22
Stonelite Filler	6-24-2
Microfil #4	6-24-10
Vinac RP 251	6-104-18
Staramic 620	A.E. Staley Mfg. Co.

MANUFACTURING PROCEDURE

Per Bulletin 61-2-23 except prior to making this product, a thorough brushing down of the Broughton mixer must be made followed by a cleanout charge of #9NCS. Pigment to be added when required, to give as close a match as possible to manila paper.

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O-5791-C Rev. 1/74 (Printed in U.S.A.)T

C Indicates Change

np006 627

Operating Division

PRODUCT PROCEDURE

CONFIDENTIAL

USG Joint Compound - Topping

No. 61-2-11-2-3

Date 1-21-74

Page 2

Cancels Page 2

Dated 9-25-72

Formula

FE-207

Vinac RP251	1.6%
Gelvatol 6000	0.8
Soluble Glyoxal Powder	0.3
Crystalline Sorbitol Powder	0.3
Natrosol 250KX	0.8
Vancide MZ-96	0.1
JM7RFO2 Asbestos	ca. 6.0
Narvon CE-F-1	15.0
P-80F Mica	9.0
FP Limestone	To make 100%
Mapico Yellow 1000	0.1

Raw Materials

Material Code No.

Material Name

P/S

65765	Vinac RP251	6-104-18
65762	Gelvatol 6000	6-3-6
67946	Soluble Glyoxal Powder	6-66-1
67061	Crystalline Sorbitol Powder	Chas. Pfizer, Atlas Chemical
66484	Natrosol 250KX	6-151-1
66688	Vancide MZ-96	6-100-11
61741	JM7RFO2 Asbestos	6-14-10
61763	Narvon CE-F-1	6-146-2
61747	P-80F Mica	6-143-1
61567	FP Limestone	6-24-23
60245	Mapico Yellow 1000	6-94-81

Manufacturing Procedure

Per Bulletin 61-2-22

END

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O-5791-C Rev. 1/74 (Printed in U.S.A.)T

General Revision

02006 2019

SPECIAL BULLETIN

Operating Division	CONFIDENTIAL	No.	61-2-11-3-V
PRODUCT PROCEDURE		Date	1-11-74
		Page	1
		Cancels	NEW
		Dated	
	USG JOINT COMPOUND TOPPING & ALL PURPOSE - CHAMBLEE		

This bulletin expires 7-1-74.

Chamblee Plant to manufacture Formula AP-275C per Bulletin 61-2-11-3-U and Formula FE-171A per Bulletin 61-2-11-2-5 with the following exceptions:

Plant to order and evaluate up to 500 lbs dry binder RS6402 from Monsanto as a replacement for Celva Powder 702 or Vinac RP251.

END

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0-5791-C Rev. 1/74 (Printed in U.S.A.)T

JP006 2781

SPECIAL BULLETIN

Operating Division	CONFIDENTIAL	No. 61-2-11-2-V
PRODUCT PROCEDURE		Date
	USG JOINT COMPOUND TOPPING	Page 1
	FORMULA FE-377B	Cancel NEW
		Dated

THIS BULLETIN TO EXPIRE ONE YEAR FROM DATE OF ISSUE.

DESCRIPTION

A LOW COST POWDER TOPPING COMBINED WITH GOOD TEXTURING PROPERTIES
FIELD TESTS AND SUBSEQUENT SHIPMENTS INTO (CIP) AS DIRECTED BY
DEPT. #971-C.

MANUFACTURING PLANTS:

Gypsum, Midway and Dallas

IDENTIFICATION AND PACKAGING:

In USG Joint Compound-Toppings bags per Bulletin 7-16-11-2 or 8-3-11-2
with the suffix LC to follow the code.

FINISHED PRODUCT SPECIFICATIONS:

Color - Natural White

Consistency - 52 to 55 c.c. per 100 gms.

Brabender - 530 $\pm$ 30 units with pin paddle

pH - 8.4 to 8.8 (8.6 normal)

Bond - 2 minimum

FORMULA:

FE-377B

Gelva Powder 702

1.5%

Celvatol 600C

0.5

Methocel 228

0.5

Vancide MZ-96 or Ziram (NOTE 2)

0.1

7RF02 or 7RF66 Asbestos

About 5.0%

P-80F Mica

5.0

Sorbitol

0.3

Glyoxal

0.3

Carbonate Filler (Note 1)

To make 100%

NOTE 1: Midway to use Quincy #3, Dallas Microfil #4 and
Gypsum #9NCS.

NOTE 2 : CAUTION - May cause irritation of eyes, nose, throat and skin. May be
harmful if inhaled or swallowed. Avoid breathing dust or spray mist.
Avoid contact with eyes, skin or clothing. In case of contact, flush
with plenty of water. For eyes, get medical attention. Keep away from
fire and sparks. Do not reuse empty container. Destroy by perforating
or crushing. Bury or discard in a safe place.

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0-5791-C Rev. 1/74 (Printed in U.S.A.)T

0006 1888
90061

W62
5/11/14

1st Extension

No. 61-2-11-2-V

Date 11-11-75

Page 1

Cancels Page 1

Dated 7-8-75

This bulletin expires 8-1-76.

DESCRIPTION

A low cost powder topping compound with good texturing properties.
Field tests and subsequent shipments into CCPD as directed by Dept. #971-C.

MANUFACTURING PLANTS

C East Chicago and Gypsum

IDENTIFICATION AND PACKAGING

In USG Joint Compound-Toppings bags per Bulletin 7-16-11-2 or 8-3-11-2 with the suffix SW to follow the code.

FINISHED PRODUCT SPECIFICATIONS

Color - Natural White

Consistency - 52 to 55 c.c. per 100 gms.

Brabender - 530 + 30 units with pin paddle

pH - 8.4 to 8.8 (8.6 normal)

C East Chicago only - 8.4 - 9.1

Bond - 2 minimum

FORMULA

	R/M #	%
C	65760	1.5%
	65762	0.5
	66458	0.5
	66688)	0.1
	66683)	
	61741)	
	61682)	About 5.0%
	61747	
	67061	5.0
	67946	0.3
	- - -	0.3
		To make 100%

C NOTE 1: East Chicago to use Quincy #3 (61463), and Gypsum #9NCS (61453).

NOTE 2: CAUTION - May cause irritation of eyes, nose, throat and skin. May be harmful if inhaled or swallowed. Avoid breathing dust or spray mist. Avoid contact with eyes, skin or clothing. In case of contact, flush with plenty of water. For eyes, get medical attention. Keep away from fire and sparks. Do not reuse empty container. Destroy by perforating or crushing. Bury or discard in a safe place.

C Indicates Change D Indicates Deletion

No. 61-2-11-2-V

PRODUCT PROCEDURE

USG JOINT COMPOUND TOPPING
FORMULA FE-377B

Date 11-11-75

Page 2

Cancels Page 2

Dated 12-24-74

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RAW MATERIALS

D

Gelva Powder 702

Gelvatol 6000

Methocel 228

Vancide MZ-96 or

Ziran

Asbestos TRFO2 or

Asbestos TRP66

P-80F Mica

Sorbitol - Crystalline

Glyoxal 80% - Crystalline

Carbonate Filler

#9NCS

Quincy #3

D

Per

PMS 6-104-18-1

PMS 6-3-6

PMS 6-151-16

PMS 6-100-11

PMS 6-100-11

PMS 6-14-10

PMS 6-14-10

PMS 6-143-1

Atlas Chemical

PMS 6-66-1

PMS 6-24-9

PMS 6-24-22

MANUFACTURING PROCEDURE

Per bulletin 61-2-11-2.

END.

D Indicates Deletion

1981 112006

Originally issued 7-22-74.

SPECIAL BULLETIN

1st Extension

Operating Division

CONFIDENTIAL

PRODUCT PROCEDURE

USG JOINT COMPOUND TOPPING
FORMULA FE-377BNo. 61-2-11-2-V
Date 7-8-75
Page 1
Cancels Page 1
Dated 1-2-75

C This bulletin expires 8-1-76.

DESCRIPTION

A low cost powder topping compound with good texturing properties.
Field tests and subsequent shipments into CCPD as directed by Dept. #971-C.

MANUFACTURING PLANTS

Gypsum, Midway and Dallas

IDENTIFICATION AND PACKAGING

In USG Joint Compound-Toppings bags per Bulletin 7-16-11-2 or 8-3-11-2
with the suffix SW to follow the code.

FINISHED PRODUCT SPECIFICATIONS

Color - Natural White
Consistency - 52 to 55 c.c. per 100 gms.
Brabender - 530 + 30 units with pin paddle
pH - 8.4 to 8.8 (8.6 normal)
Midway only - 8.4-9.1
Bond - 2 minimum

FORMULA

*R/M #		%
65760	Galva Powder 702 (Note 3)	1.5%
65762	Galvatol 6000	0.5
66458	Methocel 228	0.5
66688)	Vancide MZ-96 or	0.1
66683)	Ziram (Note 2)	
61741)	TRFO2 or	About 5.0%
61682)	TRF66 Asbestos	
61747	P-80F Mica	5.0
67061	Sorbitol	0.3
67946	Glyoxal	0.3
- - -	Carbonate Filler (Note 1)	To make 100%

NOTE 1: Midway to use Quincy #3 (61463), Dallas Microfil #4 (61466) and Gypsum #9WCS (61453).

NOTE 2: CAUTION - May cause irritation of eyes, nose, throat and skin. May be harmful if inhaled or swallowed. Avoid breathing dust or spray mist. Avoid contact with eyes, skin or clothing. In case of contact, flush with plenty of water. For eyes, get medical attention. Keep away from fire and sparks. Do not reuse empty container. Destroy by perforating or crushing. Bury or discard in a safe place.

NOTE 3: Dallas may use Vinac RP-251 (65765) as an alternate.

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O-5791-C Rev. 1/75 (Printed in U.S.A.)T

C Indicates Change

0006 1982

Operating Division	CONFIDENTIAL	No. 61-2-11-2-5-B
PRODUCT PROCEDURE		Date 4-14-75.
	USG JOINT COMPOUND - TOPPING (JE-171A)	Page 1
		Cancels NEW
		Dated

This bulletin expires 4-1-76.

South Gate Plant to manufacture and ship USG Joint Compound Topping (JE-171A) per bulletin 61-2-11-2-5 with the following exceptions so as to utilize full bags of asbestos floats and/or mica to minimize dust during production.

FINISHED PRODUCT SPECIFICATIONS

Consistency - 60-64 cc. (normal) 62)

FORMULA

<u>*R/M#</u>		<u>%</u>
65777	RS-6402	1.55 instead of 1.6
65762	Gelvatol 6000	.75 instead of 0.8
61682	Asbestos 7RF66	5.34 instead of 6.0
61740	Mica P-80F	5.34 instead of 0.6 Formula V
61463	Chromocal	12.00 instead of 15.0

* USG Unified Raw Material Code Number.

END.

NP006 2066

Originally issued 7-22-74.

SPECIAL BULLETIN

Operating Division

CONFIDENTIAL

PRODUCT PROCEDURE

USG JOINT COMPOUND TOPPING
FORMULA FE-377BNo. 61-2-11-2-V
Date 1-2-75
Page 1
Cancels Page 2
Dated 12-24-74

This bulletin expires 8-1-75.

DESCRIPTIONA low cost powder topping compound with good texturing properties.
Field tests and subsequent shipments into CCPD as directed by Dept. #971-C.MANUFACTURING PLANTS

Gypsum, Midway and Dallas

IDENTIFICATION AND PACKAGINGIn USG Joint Compound-Toppings bags per Bulletin 7-16-11-2 or 8-3-11-2
with the suffix SW to follow the code.FINISHED PRODUCT SPECIFICATIONSColor - Natural White
Consistency - 52 to 55 c.c. per 100 gms.
Brabender - 530 + 30 units with pin paddle
pH - 8.4 to 8.8 (8.6 normal)
Midway only - 8.4-9.1
Bond - 2 minimumFORMULA

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65762	Gelvatol 6000	0.5
66458	Methocel 228	0.5
66688)	Vancide MZ-96 or	0.2
66683)	Ziram (Note 2)	
61741)	TRF02 or	About 5.0%
61682)	TRF66 Asbestos	
61747	P-80F Mica	5.0
67061	Sorbitol	0.3
67946	Glyoxal	0.3
- - -	Carbonate Filler (Note 1)	To make 100%

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0-5791-C Rev. 1/75 (Printed in U.S.A.)T

C Indicates Change A Indicates Addition

07006 1984