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DATE: 1947-1954

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San Francisco, California
January 5, 1947

CENTRAL FILE COPY

STANDARD OIL COMPANY OF CALIFORNIA
Attention: Mr. C. V. Lane

Mr. Lloyd Bryan of H.C.Price Company, which company practices our patented "Somatic" process of coating pipe, phoned 12-23-46 to say that, inasmuch as asbestos fibre would not be available to them after their present supply is used up, he wished to change the specification for Somatic to omit reference to asbestos. Mr. Bryan stated that the asbestos producers had advised H.C.Price Company that no asbestos fibre would be available for two years.

Asbestos fibre is now used by Standard in asphaltic roof coating. It is an essential ingredient and, even if a substitute were now available, a long period of test exposure would be required to field test it before products incorporating it would be approved for marketing by Standard. It is essential that a supply of fibre be available to Standard as well as H.C.Price Company and Bechtel Brothers McCone Company, licensees of Somatic coating.

If the shortage mentioned by Mr. Bryan refers only to the grade of fibre in use by H.C.Price Company it might be advisable to change their operations to a different grade, even if it were more expensive, than to try and develop a substitute material.

We will appreciate any information you may be able to obtain on this subject.

W. H. DAVIS

WHD:LT

cc: Mr. A. L. Lyman

ORIGINAL SIGNED
W. H. DAVIS

File # 51-410	
JAN 6 1947	
PRODUCTS	
	Note
ALL	
AHB	✓
SMB	
GHD	
IS	
ASBESTOS FIBRE	✓
FWK	
GIN	
Follow up date	

1/6

3

January 27, 1947

Ans 1-31-47

FILE 420.22

SOMASTIC PIPE COATING

Mr. Lloyd Bryan
H. C. Price Co.
Somatic Division
P. O. Box 149
Bartlesville, Oklahoma

CENTRAL FILE COPY

Dear Mr. Bryan:

Your advice of last December that you were unable to obtain asbestos fibre was passed on to Mr. C. V. Lane who is Manager of the Purchase and Stores Department of Standard for his information, since Standard Markets products containing asbestos fibre.

We have received a letter in answer from Mr. Lane in which he states that Johns Manville have said that they would not be in a position to quote, nor would they be in a position to supply Standard with any asbestos fibre for the year 1947. However, Mr. Lane was able to obtain supplies from the L. H. Butcher Co., 15th and Vermont, San Francisco, whose material comes from Thetford, Canada. Mr. Lane suggests that if you have not already done so that you might inquire of the L. H. Butcher Co.

Our experimental work on glass fibre and similar material is started. Since we will have experimental data only, even if such fibres appear satisfactory, and will not have actual commercial scale nor long time experience with substitutes, it would be highly desirable to continue with asbestos, if at all possible. We have been thinking of the use of the more expensive grades of asbestos fibre. If the supply of that material is also short there would of course be no point in considering its use, but if it could be obtained at some increased cost, it might be used at least until some experience is had with a substitute fibre.

Very truly yours,

cc: Mr. J. B. Connel, Bechtel Corp., Los Angeles.
cc: Mr. A. L. Lyman (3)

ORIGINAL SIGNED
W. N. DAVIS

You will recall that our letter of December 23, 1946, stated that the present supply of asbestos fibre available to H.C.Price Co. would last until February 1947. Can you now give any indication as to the utility of other fibres for inclusion in Somatic.

W.N.DAVIS.

WHD:ray

FILE 10 1-4-1	
JAN 28 SAT	
PRODUCTS	
ALL	
AMB	
DNB	
OND	
BBF	
JEF	
EWG	✓
RAG	
FWK	
FM	
Follow us (C-1)	

VMS ✓ 265

3

San Francisco, California
March 21, 1947

CENTRAL FILE COPY

STANDARD OIL COMPANY OF CALIFORNIA
Attention: Mr. C. V. Lane

FILE M-420.22

File	157-470
MAR 27 1947	
PRODUCTS	
	Note Advise
ALL	
AMB	
AMB	
GND	
BZF	
IEF	
EWQ	✓
RAG	
Follow up data	

California Research Corporation licenses the manufacture of Somatic Pipe Coating to the H. C. Price Company and Bechtel Company. These companies are finding it impossible to buy the asbestos required in the Somatic formula and the H. C. Price Company has asked us to develop substitute materials.

We have had samples of Corning Fiber Glass from the Corning Glass Company and mineral wool from the Western Asbestos Company and Johns Manville Company and have carried out sufficient experimental work with these materials to learn that something of the general nature of the above products may be a suitable substitute for the grade of asbestos used in Somatic. We would like to have your assistance in locating other sources of supply of similar materials and also in determining whether the above-named companies have a product more suitable for our use than the sample submitted. It is possible that some waste product or material now discarded by reason of too short a fiber for other uses might be suitable for our requirement.

The old Somatic asbestos specifications were as follows:

Long fibered, free from lumps or foreign matter.
100% passing 3/8" screen opening.
Not more than 60% passing 10 mesh screen opening.
Not more than 20% passing 40 mesh screen opening.

We do not desire to make these specifications for substitute material as restrictive as the above specifications and suggest that inquiries be made for a product comparable in fiber size to the grade known as Phillip Carey XX. You will note that this material is also used in several products manufactured by Standard and the inquiries suggested above might also develop new sources of supply for those products.

In this connection we have recently received samples of asbestos type mineral known as Amosite marketed by Union Asbestos and Rubber Company and are experimenting with several grades of that material to determine its suitability for Somatic. It may also be of interest for some of Standard's uses.

W. N. DAVIS

ORIGINAL SIGNED BY
W. N. DAVIS

WHD:VK

cc: Mr. A. L. Lyman

CH 2225

FILE 151431 *Amosite* {changed office 5-15-48} SF.
MR. A. L. EMMAN (3)
Please cc letter of
acknowledgment and comments.

BECHTEL CORPORATION
SOMASTIC PIPE COATING

April 28, 1948

WHE:EK 5-7-48
Encl. Ltr. JSC-JLC, 4-28-48, (3)

Photos (1 of 2)
No cc. encl our
files.

Mr. J. D. Cooley
California Research Corporation
220 Bush Street
San Francisco, California

ans 5/28/48

CENTRAL FILE COPY

Dear Mr. Cooley:

We have just written you on the subject of "Tramp" extracted from Somastic Pipe Coating Mix. We wrote yesterday on improvement we have made in Holiday Detector. This letter covers another subject, namely, Willowar.

We have had difficulty in properly separating Amosite, the long fibred asbestos we are getting from Union Rubber and Asbestos Company, the asbestos coming originally from South Africa.

Our experience is that Amosite, when properly diffused through the mix, is probably the finest asbestos material we have used. But from time to time we found pockets of Amosite in the finished Coating. Investigation disclosed that with the type Willowar we have been using we do not get complete diffusion with Amosite as we apparently did get with former asbestos. We called on Mr. Rudolf Wild of Union Rubber and Asbestos Company for suggestions. He visited with us and finally referred us to a Mr. Ceriat who operates a gadget manufacturing plant in Los Angeles. Members of our investigating group visited his plant and came up with an idea for a blower attachment which we have developed and proven out, and are now installing in our Somastic Pipe Coating Plants. We believe we now have the answer to our asbestos diffusion problem.

Yours very truly,

BECHTEL CORPORATION

/s/ Jasper S. Connell
General Manager, Somastic Division

JSC:jhp

FILE 151431	
MAY 10 1948	
PRODUCTS	
	Note Advise
ALL	
AMS	
JEF	
GHD	
BBF	
RAG	
FWR	
EJM	
VRS	
CP	
DE	
7/2/48	
7/19	

32
1/ Photos
4-14-48

147510
Richmond, California
August 11, 1947

SOMASTIC PIPE COATING
SPECIFICATIONS

MR. J. L. COOLEY:

In accordance with a verbal request by Mr. W. H. Hampton, the suitability of substituting 1/3% Style No. 505 Amosite in place of 1% asbestos fiber in the manufacture of Somastic Pipe Coating was investigated.

It may be noted from Table I that although neither Somastic mix met tensile strength specifications, the tensile strength of the mix utilizing 1/3% Amosite compares favorably with that of the regular mix in which 1% asbestos is used.

Because our pug mill, which normally is used in preparing Somastic mixes, is currently inoperative, these mixes were prepared by hand, and consequently a uniform mixture may not have been attained. However, since the tensile strength of the Amosite mix closely approximated that of the asbestos mix, which is known to pass specifications, and because the results on bending and impact were satisfactory, we conclude that 1/3% Style No. 505 Amosite may be safely substituted for 1% asbestos in the manufacture of Somastic Pipe Coating.

A. L. LYMAN
AL

EWM:JM
Encl - Table I

JLC-4
File-32

C&S ←

CHECKED BY	<i>EWM</i>
APPROVED BY	<i>AL</i>
REQUIRES ACTION	FOLLOW

October 23, 1950

Mr. J. L. Cooley
California Research Corporation
Standard Oil Building
San Francisco 20, California

Dear Mr. Cooley:

We are shipping samples of Somastic Coating taken from the 14" line on which the coating failed. Included in the shipment are:

3 lbs. machine applied Somastic Coating
2-3/4 lbs. hand applied Somastic Coating
30 lbs. Grade 3 asphalt

The samples are taken from the line in or adjacent to the damaged areas investigated. The asphalt is from the batch used in the manufacture of the coating applied to this line.

The line was investigated at the bends in or near the refinery. The severe damage was in the bends, which in all cases, was hand applied coating. The nature of this damage is shown in the pictures sent you September 25, 1950. Deformation of the machine applied coating may be seen in the sample taken from the line.

The sample of Grade 3 asphalt is being sent that you may determine its conformance to specification.

The plant calibration for this run was as follows:

Grade 3 Asphalt	12.6%
Amosite	.3%
Line Stone Dust	22.3%
Sand	64.8%

The samples are being shipped via rail express to your attention, California Research Laboratory, Richmond, California.

Yours very truly,

BECHTEL CORPORATION

Earl Jelter

EJ/cm

CH 666

FILE 161.510
Your File 151.130
MR. J. L. COOLEY:

This self-explanatory letter
has been written for your
approval and signature.

A. H. BATCHELDER

RJS:mb
JLC-6
File-3

JUL 22 1954

Somastic Pipe Coating

Mr. R. R. Davidson
Pipe Linings, Incorporated
P. O. Box 457
Wilmington, California

Dear Mr. Davidson:

In your letter dated July 9, 1954, you requested test procedures and the minimum specifications on Somastic Pipe Coating. This information was required so that you might perform your own tests on experimental coatings containing "AW Processed" Amosite fiber.

These procedures and minimum requirements are contained in the Specification No. 10J, Somastic Pipe Coating. Section I, Item 42, lists the physical properties and Section IV, Methods of Test, describes the test procedures in detail.

A copy of Specification 10J is attached for your information. Also attached is a prepublication copy of the new Asphalt Institute specifications on underground pipe coatings which contain in Section C-3 additional information on test procedures applicable to Somastic Pipe Coating.

In order to approve the alternate Amosite fiber and to determine the optimum concentration of this fiber in Somastic Pipe Coating, it will be necessary to prepare several mastic mixes, identical in all respects except for a difference in the Amosite concentration. The difference in Amosite concentration should vary over the possible fiber content range, that is, 0.25% to 1%. From each of these mixes is prepared specimens to be tested for tensile strength, impact strength, and bending resistance. On the basis of results determined from these tests, a decision on the optimum fiber content can be made.

If we can be of any additional assistance, please do not hesitate to call on us.

Very truly yours,

RJS:mb
Encl.- Spec. 10J
Asphalt Institute Spec.

CHECKED BY	RJS.
APPROVED BY	
RECOMMENDATION	FOLLOW