PLAINTIFF'S EXHIBIT
CT-1572

FORM P927

TECHNICAL SPECIFICATIONS

CERTAIN-TEED PRODUCTS CORPORATION
PIPE DIVISION

SPECIFICATIONS CLASSIFICATION: Standard Purchasing Specification

T.C.O. REF. NO.	SPECIFICATION NO:	PAGE NO.:
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SUPERSEDES: July 30, 1970

DATE OF ISSUE: FEB 16 1972

DESCRIPTION:

FLUID-TITE Lubricant For Use In Field With P&PG Asbestos-Cement Pipe

1.0 General

1.1 Description

This specification is intended to describe the properties that are believed necessary for an effective lubricant.

The lubricant shall have a paste consistency and shall be capable of being easily removed from the container by brush or cloth and by the same means ahall be readily applied to the gasket and pipe ends.

The lubricant shall be non-toxic and shall not impart any taste or odor to the water in a pipe line. The lubricant shall not be injurious to natural or synthetic rubber compounds.

1.2 Use

The lubricant as described in this specification is intended to impart lubricity to a wet or dry joint of Asbestos-Cement Pipe to provide for ease of assembly in the field. It is assumed that in the case of a wet joint, the joint will be assembled shortly after application of the lubricant.

1.3 Lot Size

For sampling and inspection purposes, a lot shall be defined as the number of containers (pails, cans or tubes) shipped on one order, received at one time at one location.

2.0 Requirements

2.1 Special

All lubricants shall be approved in writing by the Quality Control and Standards Manager of CERTAIN-TEED Pipe and Plastics Group (P&PG) and referenced by a compound number assigned by the vendor. After approval no change in this material may be made without authorization, in writing, from Quality Control and Standards Manager. When such a change is authorized, it shall be referenced by a new compound number. The manufacturer shall inform the Purchasing Department and the Quality Control and Standards Manager when such an authorized change is actually placed in effect.

2.2 Manufacturer's Inspection

The manufacturer shall perform such inspection and testing that all defective material is removed from each shipment before shap-

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ment is made to P&PG.

2.3 Manufacturer's Control Data

The manufacturer shall maintain records of the control data on each batch of lubricant that is manufactured for P&PG. These records shall be maintained for a year and when requested the manufacturer shall be able to furnish a notarized statement that the requirements of this specification have been complied with for any given shipment.

2.4 Manufacturer's Affidavit

The manufacturer shall supply to the Quality Control and Standards Manager an affidavit stating that the lubricant does not support bacteria or fungus growth. In addition the bacteriological tests as defined in this specification shall be performed twice a year and the results forwarded to the Quality Control and Standards Manager.

2.5 Physical Characteristics

The physical characteristics shall be in accordance with the requirements as shown in Table A.

2.6 Chemical Characteristics

The chemical characteristics shall be in accordance with the requirements as shown in Table B.

3.0 TEST METHODS

3.1 Physical

3.1.1. Viscosity	Brookfield Viscosimeter
3.1.2. Color, Odor, Taste	TM35
3.1.3. Shelf Life	TM35
3.1.4. Temperature effect	TM35

3.2 Chemical

3.2.1. Moisture-	Method of Test ASTM D-460 Method B. Distillation Method.
3.2.2. Alkali	Free Fatty Acid Balance - Method of Test, ASTM D-460 Sections 16 through 18.
3.2.3. p h	Standard p h meter
3.2.4. Bacteriological	This test is to be conducted by the Vendors only and certified test results are to be sent to the Quality Control and

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Standards Manager. Brief description of test: One gram quantities of the lubricant are placed on the surface of agar plates on which B. Coli and S. Aureus organisms have been previously seeded. The plates are then incubated for 24 hours at 35°C. The plates are then examined for inhibition of surface growth of the organisms. While there are many thousands of fungi and bacteria in the soil and water, it is believed that the organisms chosen are among the most numerous and are also representative of many strains of organisms.

4.0 Packaging and Marking

The lubricant shall be packaged in 5-ounce tubes, pint cans, one and one-half (1½) quart containers, and in five (5) gallon pails. The design of the tubes, containers and pails shall be approved by P&PG. The tubes shall be packaged 36 to a carton, the pint cans 24 to a carton, and the 1½ quart containers 2 to a carton. The pint cans and 1½ quart containers shall have double friction lids. The 5-gallon pails shall have lug type lids and shall not be placed in cartons. The design and printing on the cartons shall be approved by P&PG. Each lot number shall be marked on each carton, pint can, 1½ quart container, and 5-gallon pail.

5.0 Acceptance and Rejection

P&PG reserves the right to reject any lot, or lots, not conforming to the requirements of this specification. Such rejection or acceptance of lot, lots, or portions thereof shall not be limited to the time of shipment, but shall be made within 30 days of receipt of the shipment. In the event of a rejection, the vendor shall be immediately advised and the reason for the rejection explained. The vendor shall be given the opportunity to inspect representative samples of the rejected materials by the Quality Control and Standards Manager, P&PG, prior to final dispositions. The vendor must express his desire to inspect rejected material within seven days after notification of the rejections and the physical inspection of rejected material must be performed within 30 days after the notification of rejections.

ADDENDUM

As a corollary to the stated requirements of this specification, the manufacturers are entreated to become reasonably knowledgeable as to the conditions of successful usage of the lubricant so that they may employ their best technology to assist in providing lubricants which will perform satisfactorily the usage intended.

CTD014980

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Table A

Physical Requirements

Viscosity Brookfield, No. 7 Spindle 20 r.p.m. @77° ± 2°F, Centipoise	50,000 ± 5000
Color	Clear
Taste, Max.	None
Odor, Max.	None
Shelf Life, Min.	1 Year
Temperature Effect	
Viscosity: Brookfield, No. 7 Spindle 20 r.p.m. @120° ± 2°F, Centipoise	24,000 ± 2400
Brookfield No. 7 Spindle 20 r.p.m. @ 0° ± 2°F, Centipoise	200,000 ± 20,000

TABLE B

Moisture Content, %	Min.	14
	Max.	17
Alkali,-Free Fatty Acid Balance		
Alkali, %, Max.		0.0
Free Fatty Acid, %, Max.		3.0
PH		9.6-11.0
Bacteria Growth		
E. Coli		Must inhibit growth
S. Aureus		Must inhibit growth

TABLE C

Nominal Weight

CTD014981

1½ qt. container	3 lbs.
5 gal. Pail	40 lbs.

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T.C.O. REF. NO.: 4	SPECIFICATION NO: 504 Addendum	PAGE NO.: 1
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DESCRIPTION:

FLUID-TITE Lubricant For Use In Field With P&PG Asbestos-Cement Pipe

NOT TO BE DISTRIBUTED TO VENDORS

1.0 General

This addendum is designed to show the special sampling plan employed as a means for conducting surveillance over the quality of the lubricant. This addendum also lists the approved Vendor (s).

This material is shipped in lots of approximately 1900 1½ quart cans, and on order for the 5 gallon pails. The Santa Clara and Riverside Plants receive approximately 8200 1½ quart cans on each shipment. (Shipment is by boat). A combination of 1½ quart cans and 5 gallon pails may be made as long as the shipping weight meets the required amount. Since each shipment usually represents one batch, (it is anticipated that 1½ quart cans and 5 gallon pails will be shipped together), it is not felt that extensive sampling is necessary. From each shipment of 1½ quart cans, or 1½ quart cans and 5 gallon pails combined, select three(3) 1½ quart cans at random and observe the consistency at room temperature and at 120°F. Twice a year (December and June) forward a 1½ quart can to the Technical Service Department of the Pipe and Plastics Group where all the tests (except bacteria test) will be performed. In the case of the shipment being all 5 gallon pails, open one pail (selected at random) and observe the consistency at room temperature, after testing return the pail to the lot if approved.

If there is any question concerning the consistency test, forward a sample to the Technical Service Department immediately. The tubes are usually packaged for all plants at one time. The tubes can be sampled from Plant 58, Ambler, Pa.

2.0 Rejections

2.1 Quality Control Headquarters shall be notified and a sample of the defective material shall be sent to the Quality Control and Standards Manager. This will be an aid in discussing the rejection with the vendor.

2.2 Headquarters, Purchasing Department shall be notified. They will issue instructions on how and when the shipment is to returned.

3.0 Approved Vendor

CTD014982

Concord Chemical Co. Inc.
17th and Federal Streets
Camden, New Jersey 08105

Approved Product
Extra Heavy FLUID-TITE Lubricant

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