PLAINTIFF'S EXHIBIT

MON-2197

THORPE PRODUCTS COMPANY

DIVISION OF J T THORPE COMPANY

DISTRIBUTORS OF INDUSTRIAL INSULATION

P. O. BOX 33399 644-2391 HOUSTON, TEXAS 77033

July 28, 1972

Mr. Pat Griffin
MONSANTO COMPANY
P. O. Box 711
Alvin, Texas 77511

Subject: OSHA Asbestos Dust Standard
Effective July 7th, 1972

Thorpe has had many requests for information regarding compliance with these new standards and in regard to asbestos containing insulating materials which we are furnishing to industry.

This letter is to make available to you our latest information and to offer any assistance possible where and when needed to assist you in compliance.

Attached is a copy of a news release from the U. S. Department of Labor which summarizes this new standard.

Also attached is a listing by type of material stocked or fabricated by Thorpe. Those having dry asbestos as a component are marked with an asterisk. Those most commonly used by industry are those included under Class I - Calcium Silicate and High Temperature Insulation.

We have taken steps to eliminate asbestos from all products which we stock and fabricate. By January 1st, 1973, we expect to have a new pipe covering produced by Johns-Manville which will have the same or better properties as Thermobestos but will contain no Asbestos or free Silica.

Until we have this new product we offer the following suggestions for compliance:

(I.) Eliminate all field fabrication of Asbestos products. When frequent removal of insulation is required, Thorpe can furnish prefabricated Thermobestos covers or completely incapsulated removable metal covers.

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Elbows can be insulated by the use of:

A. Prefabricated or factory molded covers
B. Aluminum covers filled with asbestos free insulating cement
C. Zeston PVC covers with 1000° Fiberglas filler
D. Zeston PVC covers with asbestos free insulating cement

II. Where cutting is required, the use of a respirator such as Safe-line Products No. 5441 Mask with No. 5905 Filter or any respirator carrying the U. S. Bureau of Mines Approval No. 21B-81.

III. Use substitute materials containing no asbestos as follows:

A. Microlok Fiberglass Pipe Covering to 500° F
B. Mineral Fiber Pipe Covering to 1200° F
C. Ceramic Fiber to 2300° F

Thorpe is currently monitoring its operation with the use of Micronair Personnel Air Samplers Catalog No. 3900-10 as produced by the Bendix Corporation and carrying OSHA Approval No. 1A-102. Dust analysis can be made by Shilstone Testing Laboratories, Houston, Texas.

We have made extensive provisions for dust collection in our warehouses and fabrication facilities. Our cutting equipment have the most effective collection attachments that we can obtain. You are welcome to visit our Houston facility at any time. Arrangements can be made through the writer.

CAUTION: When considering Asbestos Free products, be sure also that they contain no Free Silica. Manufacturers will generally offer this information in writing.

The enclosed information is fragmentary. Please call us for additional information or assistance. Copies are available for your Safety Department or person responsible for OSHA compliance.

We appreciate your business and hope that the enclosed information will be beneficial to you and will help us earn your continued trust and confidence in our services.

THORPE PRODUCTS COMPANY

M. P. Proctor

MPP:pb

Enclosure

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FORTY-EIGHT INSULATIONS INC. AURORA, ILLINOIS

3802
January 1972

FORTY-EIGHT SUPER "48" CEMENT

SUPER "48" CEMENT is an all purpose, high temperature insulating and bonding cement for the full range of temperatures to 1800°F. It is manufactured from a controlled blend of resilient, 1600°F refractory fibers and special high temperature binders. SUPER "48" CEMENT contains no asbestos, is actively rust-inhibitive and will not cause or accelerate corrosion when properly applied to iron or steel surfaces. SUPER "48" has exceptional bonding adhesion, trowels smooth, has minimum shrinkage, and maximum thermal efficiency. Not hydraulic-setting, it is reclaimable at temperatures up to 1200°F. Simply re-mix with clean water and use again.

SUPER "48" is recommended for use on irregular surfaces, general insulating and maintenance work, ducts, breeching, turbines, valves, fittings, or as a leveling material over other insulations. Application subjected to outside weathering must be protected.

THERMAL CONDUCTIVITY

MEAN TEMPERATURE	K-FACTOR
200°F	.585
400°F	.64
600°F	.73
800°F	.85

RECOMMENDED THICKNESSES:

Hot Face	Thickness	Hot Face	Thickness
200°F	1"	750°F	2½"
350°F	1½"	950°F	3"
550°F	2"	1200°F	4"

SERVICE TEMPERATURE: Up to 1800°F.

DRY COVERAGE: 45-50 sq. ft. 1" thick per 100 lbs.

INSTALLED DENSITY: Approx. 28 lbs. per cubic foot.

VOLUMETRIC SHRINKAGE: (Wet to dry) Approx. 15%.

CORROSION TO STEEL: Non-corrosive.

LEACHABLE CHLORIDES: Less than 25 ppm.

SPECIFICATIONS: Federal: HH-C-168
SS-C-160, Type III, Grade U
MIL-C-2861D; MIL-I-24244(SHIPS)
A.S.T.M.: C-195

PACKAGING: Strong, multiwall bags of 50 pounds.

Values shown are subject to our normal manufacturing and testing methods and tolerances.

C 000285

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THORPE PRODUCTS COMPANY

HOUSTON DALLAS BEAUMONT

THE FOLLOWING IS A LISTING BY TYPE OF INSULATING MATERIALS STOCKED OR FABRICATED BY THORPE

I. CALCIUM SILICATE AND HIGH TEMPERATURE INSULATIONS
- A. Thermobestos - Pipe Covering and Block *
- B. Metal-On Pipe Insulation *
- C. Superex Block

II. FIBERGLASS INSULATIONS
- A. Micro-Lok Pipe Insulation (snap-on)
- B. Microlite Blanket
- C. Duct Liner - Lina Coustic

III. MINERAL WOOL
- A. Spinglas 1000° Blanket
- B. #10 Blanket
- C. Griptex Block
- D. MF Pipe Covering
- E. Minibond - Stress Relieving Blanket
- F. Cerafelt
- G. Cerafiber

IV. FOAM INSULATIONS
- A. Urethane - Pipe Covering and Block
- B. T-Foam - Two Component Pour Urethane
- C. Styrofoam
- D. Ceramic Foam

V. UNDERGROUND INSULATION
- A. Witcolite
- B. Trisulite

VI. CELLULAR GLASS INSULATION
- A. Foamglas - Pipe Covering and Block

VII. INSULATION ACCESSORIES
- A. Cements
  - 1. 48 Insulation, Inc.
    - a. Quik Set (One Coat) 1000° Temp.
    - b. Super 48 1800° Temp.
  - 2. Johns Manville
    - a. 352 Cement *

Continued .....

C 000286

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FORTY-EIGHT INSULATIONS INC. AURORA, ILLINOIS

3804
January 1972

FORTY-EIGHT QUIK-SET CEMENT

QUIK-SET CEMENT is a one coat, hydraulic-setting, high temperature bonding cement that insulates and trowels or palms to a smooth, hard, white finish. QUIK-SET CEMENT is a dry mixture of high temperature fibers and a combination of adhesive bonding and hydraulic-setting binders and contains no asbestos. QUIK-SET CEMENT combines the high temperature resistance and excellent insulating qualities of uniformly nodulated mineral fibers with the high strength, low shrinkage and smooth finish of hydraulic-setting cement. After mixing with water, it will remain workable for up to two hours. QUIK-SET CEMENT takes a green set in two to four hours and will then withstand effects of rain or moisture without softening. Initial troweling produces a satisfactorily white surface. Subsequent steel troweling within 30 minutes after application will give a superior surface with a bright, attractive glaze.

QUIK-SET CEMENT is designed for use on valves, fittings and heated equipment, or as an insulating finish over other insulations. Outside applications must be protected with an appropriate weatherproofing.

THERMAL CONDUCTIVITY

MEAN TEMPERATURE	K-FACTOR
200°F	.60
400°F	.70
600°F	.80
800°F	.96

SERVICE TEMPERATURE: Up to 1200°F.

DENSITY: 40 lbs. per cubic foot.

COVERAGE: 30 sq. ft., 1" thick per 100 lbs.

INITIAL SET: Approximately 2 hrs. after application.

ADHESION: Good.

WEATHER RESISTANCE: Will not soften after initial set.

SHRINKAGE: Negligible.

LEACHABLE CHLORIDES: Less than 25 ppm.

SPECIFICATIONS: Federal: MIL-C-2908A, Type II
MIL-I-24244(SHIPS)
SS-C-160, Type III, Grade F
A.S.T.M.: C-449

PACKAGING: Packaged in moistureproof multiwall bags of 50 lbs. for longer warehouse storage life and additional on-site quality protection.

Values shown are subject to our normal manufacturing and testing methods and tolerances.

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