

June 2, 1964 ✓

Mr. R. E. Sampson  
Bigelow-Liptak Corporation  
13300 Puritan Avenue  
Detroit 27, Michigan

Dear Dick:

At a recent meeting of the Board of Directors of the National Insulation Manufacturers Association, it was brought out that one of the major insulation manufacturers was planning to add a cautionary note to containers where the products involved included asbestos as a constituent.

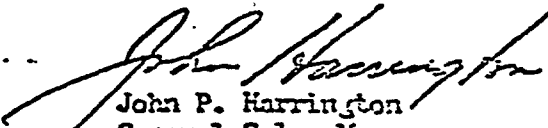
I am attaching a copy of that portion of the minutes of this meeting which gives the details of this step.

We are planning to use this same cautionary note, having it printed on the bags when our present stocks run out. The Eagle-Picher products involved are: Super "66" Cement, One-Cote Cement, "33" Cement and "43" Cement. Your corresponding products are: C-13, C-10, FC-11 and our "43".

At your convenience, would you let us know if you wish similar action taken with respect to the cements, which we are manufacturing under your label.

Sincerely,

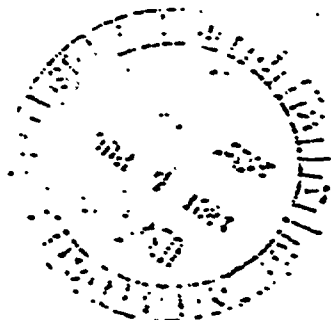
THE EAGLE-PICHER COMPANY

  
John P. Harrington  
General Sales Manager  
Industrial Insulation

JPH/sa

Att.

cc: Mr. H. F. Nunn  
✓ Mr. A. L. Jones



## Description

Protective coating WP is a bituminous base product made of asbestos fiber, emulsified asphalt, and Bentonite clay. It prevents air infiltration through insulation and safeguards against weather. It is a tough, fire-resistant sheathing that sheds water, resists abrasion and is not easily punctured. It is particularly suited for oil refineries, out-door boilers, marine equipment — wherever installations are exposed. WP also provides a water-repellent coating for indoor furnaces. It will not stick to metal.

## Technical Data

|                   |                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature Limit | To 300° F.                                                                                                                                        |
| Fire Resistant    | Will not burn at temperatures as high as 450° F.                                                                                                  |
| Shrinkage         | Approximately 50%, in thickness only.                                                                                                             |
| Water Resistance  | Sheds water, ideal for weatherproofing.                                                                                                           |
| Density           | Approximately 3 lbs. per bd. ft. when dried.<br>Coverage: 50 sq. ft., 1/4 in. thick, applied (drying to approximately 1/8 in. thick) per 100 lbs. |
| Strength          | Forms tenacious bond.                                                                                                                             |
| Appearance        | Dries to a smooth, rich black. Can be painted if desired.                                                                                         |

## Application Data

Score surface if possible before applying. Be sure to fill all holes in the insulation with C-18 insulating cement. WP should be troweled on dry surfaces about 1/4 in. thick; dries about 1/8 in. thick. Reinforce with 1 in. wire poultry netting where necessary. Stretch mesh tightly and fasten securely at intervals of not more than 12 in. in all directions.

## Product Data

Bigelow-Liptak protective coating is available in two grades—for summer (for temperatures above 40° F.) or winter use. Packed in containers weighing 50, 150, 300 and 500 lbs. net. Shipped f.o.b. Joplin, Missouri. Minimum carload weight, 40,000 lbs. Carloads can be made up of more than one kind of insulation.

An Insulation  
Product of

2746 Litho in U.S.A.

EXHIBIT

**B**

AS0000037

# Description

C-10 is a finishing cement composed of asbestos, clay and white Portland cement. It provides a smooth, dense, white finish coat for all types of insulation. It is effective within a range of 70° F. to 1000° F. and is non-reclaimable.

## Technical Data

|                      |                                                                                      |
|----------------------|--------------------------------------------------------------------------------------|
| Temperature Limit    | To 1000° F.                                                                          |
| Conductivity         | Higher than C-18, but this material is used only as a finish coat about ¼ in. thick. |
| Shrinkage            | 7%, in thickness only.                                                               |
| Water Resistance     | Will absorb water but does not disintegrate. Can be readily washed down.             |
| Density              | 3.8 lbs. per bd. ft.<br>Coverage: 105 sq. ft., ¼ in thick, per 100 lbs.              |
| Adhesive             | Adheres well to any insulation although not as tight a bond as C-18.                 |
| Durability           | Dense, tough surface unaffected by acids.                                            |
| Light Reflectiveness | White finish has light-reflective rating of over 60%.                                |

## Application Data

Mix at a ratio of 16½ gals. of water to each 100 lb. bag of C-10. Use a short time after mixing; do not allow to set over night. Will set hydraulically in 6 hours. Trowel to a smooth finish. This cement should be used only as a finish coat, preferably about ¼ in. thick.

## Product Data

Bigelow-Liptak C-10 finishing cement is shipped in 100 lb. multi-wall bags f.o.b. Joplin, Missouri. Minimum carload weight, 40,000 lbs. Carload can be made up of more than one kind of insulation.

An Insulation  
Product of

2246 Lihne in U S A

EXHIBIT

**B**

AS6600034

## Description

C-18 is an insulating cement composed of mineral wool, long-fiber asbestos, and an adhesive binder. It is crack resistant, does not contain any Portland cement. While it does not trowel to a hard finish, many installations are in service where C-18 comprises the sole exterior coat. It has a low thermal conductivity rating and is easy to work.

## Technical Data

|                            |                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature Limit          | To 1800° F.                                                                                                                                                         |
| Conductivity and Heat Loss | See curves on inside pages.                                                                                                                                         |
| Shrinkage                  | 15%; in thickness only.                                                                                                                                             |
| Density                    | 1.8-2 lbs. per bd. ft.<br>Coverage: 25-27½ bd. ft. per 50 lb. bag.                                                                                                  |
| Rust Inhibitive            | Special inhibitor prevents rust and corrosion of iron and steel.                                                                                                    |
| Adhesive                   | Forms a complete bond to any clean surface. One test indicated that over 1200 lbs. per sq. ft. of "pull" was required to break bond between C-18 and a metal plate. |
| Plasticity                 | Forms an efficient, 1-piece insulating coating. Follows surface contours easily. No seams or joints.                                                                |
| Reclaimable                | At temperatures to 1200° F., C-18 can be removed, remixed, and reapplied without loss of insulating properties.                                                     |

An Insulation  
Product of

EXHIBIT B ASC000033

## Description

FC-11 is a smooth-finish insulating and finishing cement which is applied to BL-17 or BL-20. It combines the insulating qualities of C-18, yet trowels as smooth as C-10 finishing cement. As a result only a one layer application is needed for a complete installation.

## Technical Data

|                              |                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature Limit            | To 1000° F.                                                                                                                                                                                                                                                                                                                                      |
| Conductivity                 | At a mean temperature of 100° F., 0.51 BTU per sq. ft., per hr., per in., per °F.<br>At a mean temperature of 300° F., 0.62 BTU per sq. ft., per hr., per in., per °F.<br>At a mean temperature of 500° F., 0.73 BTU per sq. ft., per hr., per in., per °F.<br>At a mean temperature of 700° F., 0.96 BTU per sq. ft., per hr., per in., per °F. |
| Shrinkage                    | Nil.                                                                                                                                                                                                                                                                                                                                             |
| Water Resistance             | After total submersion in water for 7 days, no change in cement properties. Can be washed down.                                                                                                                                                                                                                                                  |
| Density (6 to 5 water ratio) | 2.91 lbs., per bd. ft.                                                                                                                                                                                                                                                                                                                           |
| Non-corrosive                | Does not corrode steel surfaces. Do not apply to non-ferrous metals such as aluminum or copper.                                                                                                                                                                                                                                                  |
| Adhesive                     | Adheres well to any insulation surface.                                                                                                                                                                                                                                                                                                          |

## Application Data

Mix 50 lbs. of dry FC-11 with 7 to 7½ gallons of water. Do not mix more cement than can be used in 2 hours. FC-11 can be applied to cold surfaces (below 150° F.) to the regular thicknesses for finishing cements, i. e., ¼" to blanket, block, insulating cement, metal lath, or plain steel surfaces. Thicknesses of 1½" can be applied in one coat. Trowel to a smooth finish.

## Product Data

Bigelow-Liptak FC-11 finishing-insulating cement is shipped in 100 lb. multi-wall bags f.o.b. Joplin, Missouri. Minimum carload weight 40,000 lbs. Carload can be made up of more than one kind of insulation.

224-6 Made in U.S.A.

An Insulation  
Product of

## Description

BC is a heavy, semi-viscous, plastic-type coating composed of asbestos fibers, asphaltum, and special non-drying oils. It is particularly useful as a solid masonry boiler wall coating for reducing air infiltration. This material remains more elastic than WP. Adheres to metal, ceramic, or insulation surfaces.

## Technical Data

|                     |                                                                                                                                                                        |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature Limit   | To 400° F.                                                                                                                                                             |
| Shrinkage (Surface) | Nil.                                                                                                                                                                   |
| Density             | 10 lbs. per gal.<br>Coverage: 13 sq. ft. per gal., 1/8 in. thick.                                                                                                      |
| Corrosion           | Protects metal from rust and corrosion. Acid and alkali resistant.                                                                                                     |
| Adhesive            | Forms tight bond to refractory walls with slight penetration and is sufficiently resilient to maintain a tight seal even though additional cracking occurs in service. |
| Appearance          | Grainy; semi-glossy. Available in black, tile red and gray. Cannot be painted.                                                                                         |

### Application Data

Apply BC 1/8 in. thick with trowel. Be certain to cover all contours and joints. (If BC sticks to trowel, dip face of trowel in naphtha or kerosene.) BC is shipped ready to use, do not thin.

### Product Data

Bigelow-Liptak BC boiler wall coating is packed in 1, 5, 16, 32, and 53-gal. drums, f.o.b. Joplin, Missouri. Minimum carload weight, 40,000 lbs. Carload can be made up of more than one kind of insulating material.

2746 Litho in U.S.A.

An Insulation  
product of

BIGELOW LIPTAK CORPORATION

## Description

RC-23 insulating cement is a plastic-type material with the ability to withstand a full range of continuous temperatures to 2300° F. It is made of fire clay, asbestos, mineral wool, and diatomaceous earth. May be applied where surface temperatures are too high for BL-17 or C-1S, in thickness required to permit junction temperature suitable for BL-17 or C-1S. Can be exposed to flame if protected by a wash coat of Lumnite cement.

## Technical Data

|                   |                                                        |
|-------------------|--------------------------------------------------------|
| Temperature Limit | To 2300° F.                                            |
| Conductivity      | See curve on next page.                                |
| Shrinkage         | 10%, in thickness only.                                |
| Density           | 4.45 lb. per bd. ft. Coverage: 22½ bd. ft. per 100 lb. |
| Adhesive          | Adheres to refractory.                                 |
| Durability        | Will not deteriorate.                                  |

## Application Data

Mix five gals. of water to each 100 lb. bag of RC-23. Trowel on cold surface in coats not exceeding 1 in. thickness.

## Product Data

Bigelow-Liptak RC-23 insulating cement is packed in 100 lb. multi-wall paper bags f.o.b. Joplin, Missouri. Minimum carload weight, 40,000 lbs. Carloads can be made up of more than one kind of insulation.

An Insulation  
Product of

Bigelow-Liptak Insulating Cement Co.