

GRACE

Zonolite
Construction Products Division

W R. Grace & Co.
62 Whittemore Avenue 02099482
Cambridge, Mass. 02140

(617) 876-1400

April 18, 1979

Mr. James Frazer
Maine Medical Center
22 Bramhall Street
Portland, ME 04102



Dear Mr. Frazer:

Confirming our conversation of April 18th, ZONOLITE® MONOKOTE® Cementitious Fireproofing supplied by this Company prior to mid-1973 contained approximately 12% by weight of asbestos fibers. These were added to the product during manufacture. Sales of fireproofing products containing asbestos were discontinued during 1973.

As promised, I have enclosed information on commercially-available sealers advertised by their respective companies as being effective in sealing the surface of asbestos-containing materials. We have no information on the effectiveness of these products.

Please do not hesitate to contact me if you have any questions concerning this situation.

Very truly yours,

Robert A. Merther
Robert A. Merther
Manager
Fire Protection Products

RAM:ds
Enclosures

We hope the information given here will be helpful. It is based on our best knowledge and we believe it to be true and accurate. Please read all statements, recommendations or suggestions herein in conjunction with our conditions of sale which apply to all goods supplied by us. We assume no responsibility for misuse of these statements, recommendations, or suggestions nor do we intend them as a recommendation for any use which would infringe any patent or copyright.

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POTENTIAL HAZARD INDEX FOR SPRAYED ASBESTOS COATINGS

Asbestos dust from sprayed asbestos coating is a function of several factors. These factors are considered separately, numerically rated, and a combined index generated to describe the potential hazard.

02099483

- A. Condition--After some time has elapsed, deterioration may occur in the coating which is visually evaluated. No consideration is given as to how the damage occurred.

Rating Numbers:

1. No apparent deterioration.
2. Slight deterioration.
3. Many areas of small change.
4. Severe damage and falls.

- B. Friability--A qualitative determination of the ability of the material to crumble and be an airborne dust.

Rating Numbers:

1. Very hard--requires tools and force to dust.
2. Hard but will dust under mild-fingernail probe.
3. Soft but gummy.
4. Soft and crush in fingers..

- C. Accessibility--A measure of occupant activity and location of the coating.

Rating Numbers:

1. Totally enclosed and sealed off.
2. Partially enclosed, e.g., suspended ceiling.
3. Open but above ten feet.
4. Open--gyms, halls and stairwells, cafeterias, ect.

D. Air systems

Rating Number:

1. Coating not a part of HVAC systems.
2. Coating in extended part of air handling systems.

E. Asbestos content-- A classification of per cent of asbestos

0 = less than 1%

1 = 1-10%

2 = 10-25%

3 = 25-50%

4 = greater than 50%

020S9484

To obtain the Potential Hazard Index, add the rating numbers determined for condition, friability, accessibility, and air system, then multiply the sum by the rating number determined for asbestos content.

Potential Hazard Index = (Condition + Friability + Accessibility + Air Systems) x (Asbestos Content)

Recommendations for Normal Occupancy

INDEX--

0--No asbestos-- No hazard

1-4--No significant hazard

5-9--Review in three years for evidence of deterioration

10-15--Review in one year for evidence of deterioration

16-20--Individual review to place in another category

21 and over--Recommend control measures

EXCEPTIONS

A. When condition is so bad, or other renovations are to be made, make appropriate control measures for the work.

B. An existing suspended ceiling does not provide adequate control for normal occupancy. Not recommended as permanent control.

Guidelines for Control Measures

A. Removal

B. Encapsulation

C. Enclosure

* A suitable elastomeric coating is available from
U.S. Coatings Collaborative 201 Marginal Street
Chelsea, Massachusetts 02150 Phone No. 617-884-6644

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ASBESTOS IN BOILER ROOMS AND PIPE COVERING

02099485

This memorandum discusses certain uses of asbestos which may be of concern in public schools, and recommendations to reduce the potential hazards from this asbestos.

Asbestos may be used in the following locations:

1. As fire and thermal insulation in the boiler room and mechanical rooms.
2. As a thermal insulation on the boiler.
3. As a thermal insulation on steam pipes throughout the building.

The potential hazard from asbestos is from any dusts which may be developed. For this reason, the material of concern is that material which is somewhat soft or crushable. When the asbestos is bound into tile or transite, the only concern is from dusts of cutting operations. If in doubt whether the material contains asbestos, a sample may be sent to the Division of Occupational Hygiene for analysis.

In situations where an asbestos dust may be generated from contact or other operations, an effective program should be developed to reduce the potential hazard. The following recommendations are presented for inclusions in such a program:

1. All patching and repairing materials should be of non-asbestos content.
2. Asbestos containing materials should be thoroughly wet with water prior to any repair work to reduce the generation of dusts.
3. All clean-up of the materials should be done by wet methods, i.e., mopping; no dry sweeping or vacuuming.
4. Pipe lagging should be painted with an elastomeric compound with appropriate fire rating and environmental durability.*
5. Where such surfaces such as pipe lagging are accessible to damage by building occupants, there should be mechanical enclosures to prevent punctures, and generation of asbestos dusts.
6. NIOSH approved dust respirators should be worn for all asbestos related work.

If you would like further information on removal procedures, or any other related matter, please contact the Division of Occupational Hygiene, 39 Boylston Street, Boston. Telephone 727-3982.

*A suitable elastomeric coating is available from U. S. Coatings Collaborative, 201 Marginal Street, Chelsea, MA 02150.

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TECHNICAL DATA SHEET

02099486

TYPE OF COATING

Flame Retardent - Latex - Elastomeric.
Synthetic Rubber Polymer.

PRODUCT

ASBESTOS GUARD FIBER FIX (No. 719)

DESCRIPTION

ASBESTOS GUARD FIBER FIX (No. 719) is a self priming, thixotropic, elastomeric fire retardent, protective coating, formulated especially for covering and containing sprayed on asbestos thermal insulating materials and asbestos pipe lagging. Application by airless spray will provide necessary penetration and cohesion on friable coatings. Dried film is elastomeric and will withstand normal abrading and abuse without cracking.

TECHNICAL DATA

FIRE HAZARD CLASSIFICATION

Reference: ASTM E 84

Flame Spread-----0
Fuel Contributed-----0
Smoke Developed-----5

Volume Solids by Weight:

63%

Viscosity:

15,000 - 30,000 cps.

Theoretical coverage:

1,010 sq. ft./gal dry.

Minimum dry film required:

Per coat 7 mils.

Wet film required:

Per coat 11.1 mils.

Coverage per gallon to achieve
minimum dry film thickness:

115 sq. ft. (allows for 20% loss) on
smooth surface. Actual coverage
depends on porosity and profile of the
surface.

Coverage per gallon
three coat system

35 - 40 sq. ft. approximately.

Drying time:

To Touch: 1/2 to 1 hour

At 50% relative humidity & 70° F.

To Recoat: 1 to 2 hours.

Complete cure:

4 to 7 days (80% strength - 72 hours)

U.S. Coatings Collaborative Inc.

Consultants & Suppliers to Industry

201 MARGINAL STREET • CHELSEA, MASSACHUSETTS 02150 • (617) 884-6644

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Color: White - Colors can be matched, minimum quantity at additional cost. Fugitive tints available for multi coat systems.

Thinner: Water (normally do not thin) 02099487

Cleaner: Soap and water before cure.

Mixing instructions: Stir thoroughly to obtain application consistency.

Methods of application: Brush or airless spray. Do not apply when the temperature is expected to drop below 50° F. or if rain threatens before coat is dry.
A minimum of three passes per coat is recommended with airless spray on friable asbestos coatings.

First pass: Straighton application.
Second pass: 45° angle to the right
Third pass: 45° angle to the left.

Brush application is only approved for pipe lagging or similar type of asbestos applications.

PROTECT FROM FREEZING

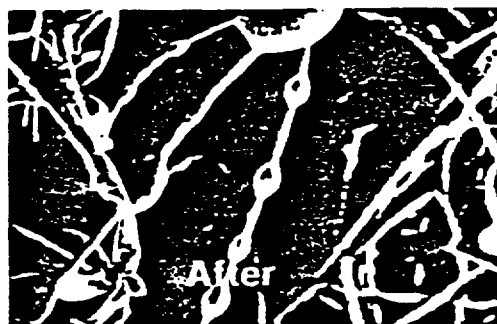
Store above 45° F.

WARNING

Applicator must take all necessary precautions to avoid inhaling asbestos fibers and strictly observe guide lines set down by OSHA and the Massachusetts Division of Occupation Hygiene, for the handling and disposal of asbestos material.

Information contained in this bulletin is presented in good faith, but it is not to be inferred that by publication hereof, U.S. Coatings Collaborative nor by the use of the employment by the reader of any suggestions or method contained herein, that U.S. Coatings Collaborative, has assumed any liability for infringement or alleged infringement of any patent, foreign or domestic, nor given any warranty, expressed or implied.

September, 1978 Supersedes all previous data sheets printed on this product.



Application of Hydroban 500E Treatments
to Exposed Asbestos Substrate

ASBESTOS FALL OUT CONTAINED!

High resolution Electronic Scanning Photo Micrographs contrast deteriorating untreated Asbestos substrate and failing surface after a Hydroban 500E Treatment.

Unique non polluting safe waterbase Polymer development effectively restructures loose, friable Asbestos dust and fibers in depth, to safely bind and prevent dangerous Asbestos Fibers from becoming airborne.

A viable alternative to hazardous, and costly efforts of existing physical Asbestos removals. Hydroban 500E Treatments do not endanger personnel and environment, thus contingent liabilities are avoided. No need to evacuate entire facility during the treatment process.

All Federal, State and Local safety and health regulatory requirements strictly followed. Properly applied, Hydroban 500E will effect and maintain minimum clean air standards related to asbestos contamination.



KRC RESEARCH CORPORATION

315 N. Washington Ave., Moorestown, N. J. 08057

Ph: (609) 234-3060-3061

Circle No. 456 on Data Card for more information

BUILDING OPERATING MANAGEMENT

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RECEIVED SEP 07 1978

KRC Research Corporation

Protective Coatings • Chemical Specialties

315 NORTH WASHINGTON AVENUE, MOORESTOWN, NEW JERSEY 08057

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Respected Friend:

Thank you for responding to our recent advertisement on Asbestos Containment in the August issue of Building Operating Management. Extensive studies and many installations have been effected in past years. These have since been "time" confirmed as to in-place treatment as a viable alternative to the hazards and excessive costs in removability.

Successful project conclusions varied from boiler rooms, printing plants, drug manufacturers, a well-known telephone company, schools, cafeterias, libraries, hospitals, steel corporation, Federal and State facility, commercial buildings, among many others. Sizes ranged from five hundred to hundreds of thousands of square feet. All successfully concluded with minimum interruption of facility activity or shutdown.

Accordingly, we are enclosing descriptive brochure, data sheets, and related literature that can serve your interest further as a possible alternative to removability.

Applications of a Hydro-Ban Asbestos Containment Treatment can be concluded with your own personnel, or responsible contractors under our monitoring and guidance. All regulatory requirements with regard to health and safety to occupants, personnel and facility strictly adhered to.

If you require additional information, tests, or other procedures specific to the conclusion of your problem, we further invite your interest. No obligation, of course.

Yours Very Truly,

KRC RESEARCH CORPORATION

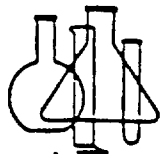
Edmund A. Drazga

EAD:drd
Enc.



First in Control

TELEPHONES: NEW JERSEY A/C 609-234-3060-3061

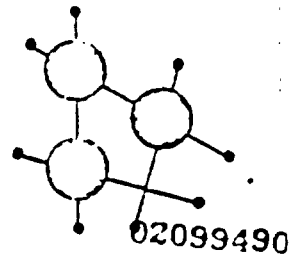


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ASBESTOS



Membrane encapsulation
provides an efficient seal
and safeguard.



The treatment of Asbestos must provide long term high efficiency, dust sealing, which will not deteriorate in a wide range of chemical and temperature conditions, resist impact fracture, and maintain or enhance the original fire classification of the substrate. The system must be non-toxic. Bonus points would be a decorative finish, protection against oil or water ingress and possibly weather proofing.

DECADEX FIRECHECK MEETS THIS SPECIFICATION

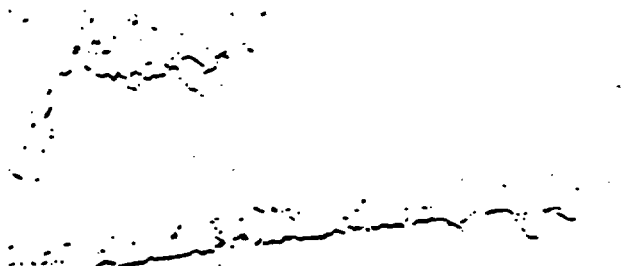
- ⊕ Not a conventional paint treatment but a high build elastomeric seamless membrane cladding.
- ⊕ With exceptional durability.
- ⊕ Which resists impact and can be armored at critical points.
- ⊕ Provides a most effective seal, at least 16 times as thick as conventional paints.
- ⊕ With highest fire ratings.
- ⊕ Is a complete barrier to water and oil.
- ⊕ Resists a wide range of chemicals and temperatures.
- ⊕ Provides a decorative finish in a range of colors.
- ⊕ Is easily maintained and repaired.



Decadex Firecheck seals sprayed asbestos and encapsulates damaged areas.



Decadex Firecheck encapsulates asbestos in an elastomeric seal.



Decadex Firecheck effectively seals extensively scarred Asbestos.

Encapsulation of all forms of asbestos in the elastomeric, impact resistant seal of a Decadex Firecheck membrane has been carried out successfully in major commercial and industrial buildings. PP membrane technology could solve your asbestos problem.

Pentagon Plastics U.S.A. Ltd.,

7659C Fullerton Road, Springfield,
Virginia 22153. (703) 569-5277/8

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It, a reasonably sound proof area, record the script, taking your time and speaking in a normal tone and rate. Remember, the persons listening should be able to identify with your voice over the period of their employment do not go "Hollywood" sound like an-

The

the spoken word since the listener will be paying attention to the song and not the message are several pre- or "list-

AUGUST, 1976

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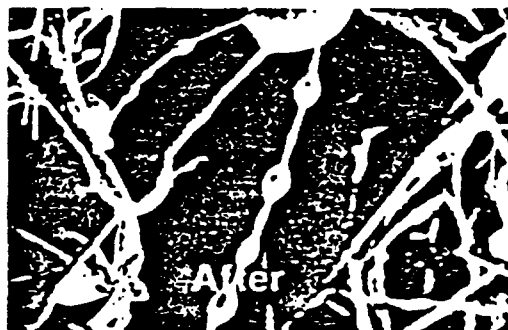
BUILDING OPERATING MANAGEMENT

ve
cer
wor
Complementary music

Musical background is just that: background! Well-known popular tunes can distract from

and
the visuals to
your sound track.
Without an unlimited budget for training aids, the best all-round aide for this item is a 35 mm camera. A "through-the-lens" focus camera is ideal, as the view in the rangefinder is that which is photographed. Familiarity with the standard camera and its capabilities are sufficient. But,

aining
packages and
decided to opt for
the former, your first
step is to become
more familiar with
the rules of the
game . . ."



Application of Hydroban 500E Treatments to Exposed Asbestos Substrate

ASBESTOS FALL OUT CONTAINED!

High resolution Electronic Scanning Photo Micrographs contrast deteriorating untreated Asbestos substrate and failing surface after a Hydroban 500E Treatment.

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All Federal, State and Local safety and health regulatory requirements strictly followed. Properly applied, Hydroban 500E will effect and maintain minimum clean air standards related to asbestos contamination.

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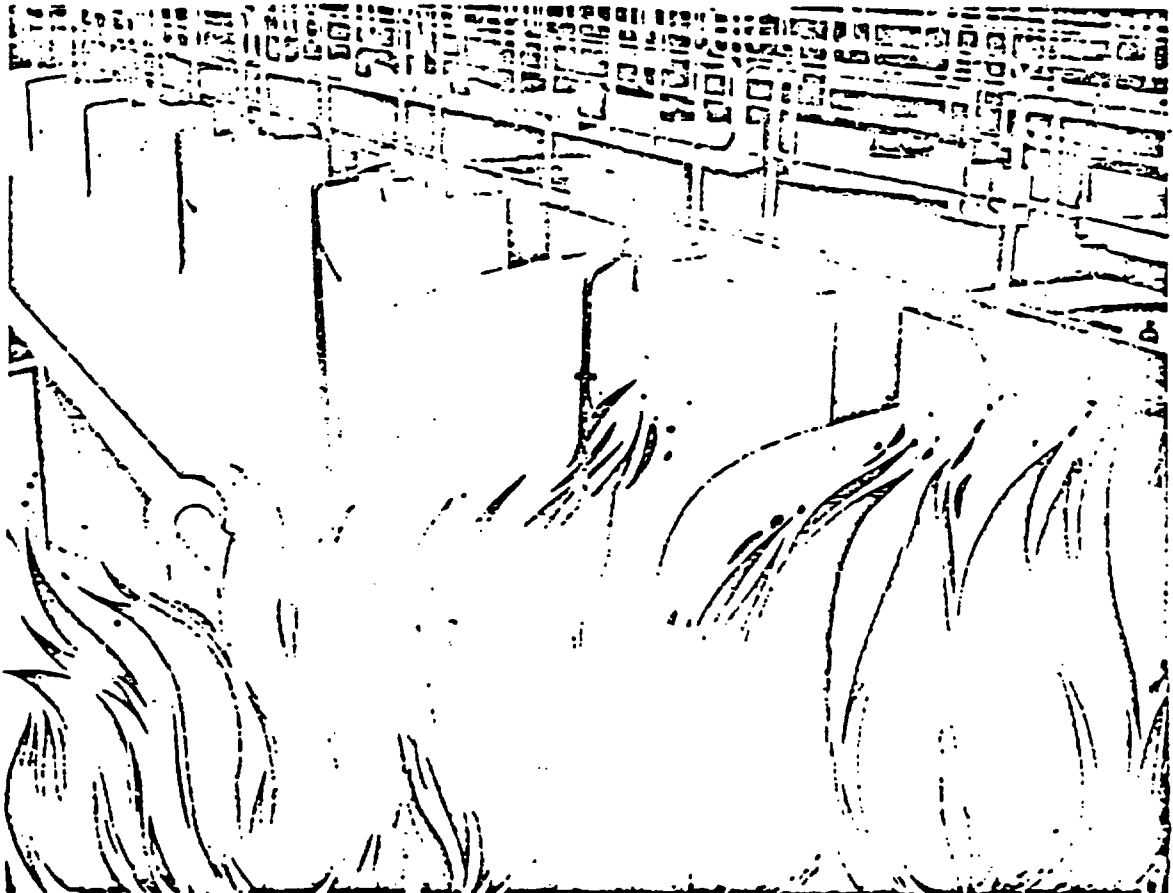
PP MEMBRANE SYSTEMS

PROVEN IN OVER 90 COUNTRIES FOR 11 YEARS

02099492

decadex firecheck

CLASS 0 RATING Easily applied fire
retardant coating ideally suitable for
all combustible surfaces.



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Decadex Firecheck

Decadex Firecheck is a water-based, single component mobile paste that can be applied by most types of industrial spray equipment or by brush. The product dries to form a thick tightly adherent elastic membrane which offers a waterproof, chemical resistant finish with a primary function in the drastic reduction of flame spread.

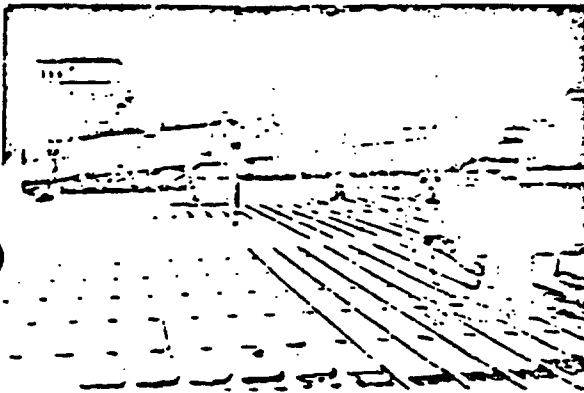
Decadex Firecheck is unusual amongst fire resistant finishes in that it is also highly weather resistant and acts as a vapour barrier. Decadex Firecheck may be used on expanded polystyrene and polyurethane where it forms an abrasion resistant, flexible skin able to absorb bruising and indentation of the surface without rupture. The product may also be employed on all types of building boards and insulation materials including hardboard, chipboard, blockboard,

asbestos, tiles and panelling. Other applications include the provision of a protective surface to lagging materials and the manufacture of expanded foam containers used in transport where fire regulations would otherwise restrict their use.

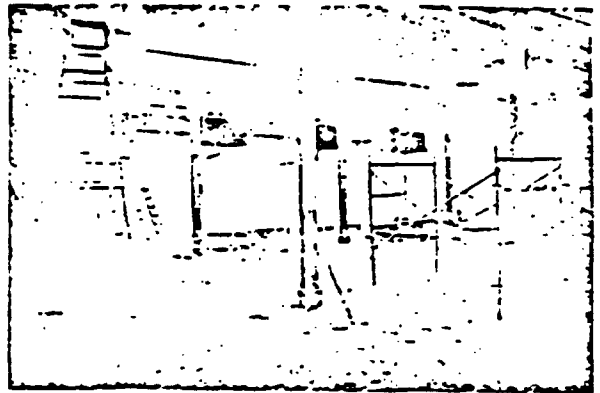
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Decadex Firecheck may be used to protect the insulation of refrigeration units, either in conjunction with plastered surfaces or directly to the insulation material. Flexitape may be pressed into the first layer of Decadex Firecheck whilst still wet and allowed to dry. After the final layer of the compound has been applied, the subsequent finish is armoured against extremely heavy impact.

Decadex Firecheck is accepted by Lloyd's Register of Shipping and the Department of Energy, (Petroleum Production Division).

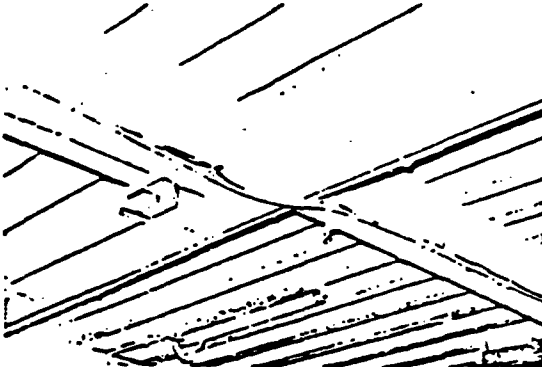


Brooks Co. USA
11,000sq. ft. Metal roof sprayed and sealed with Decadex Firecheck.

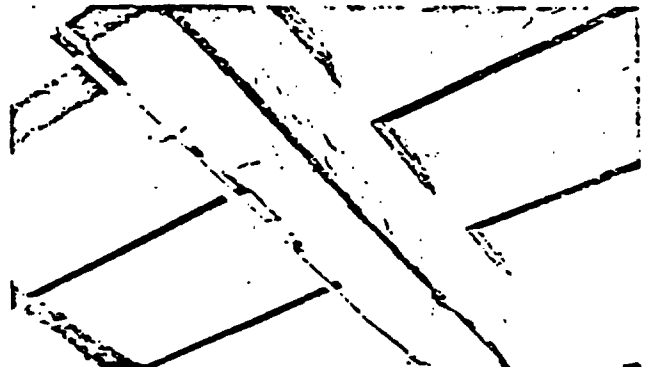


New England Cold Storage Co. Decadex sprayed over polyurethane foam as a fire barrier material in freezer room.

DECADEX FIRECHECK - an effective Sealer for Asbestos



Decadex Firecheck encapsulates and seals sprayed asbestos insulation in fair condition.



Decadex Firecheck encapsulates and seals even damaged asbestos insulation.

Decadex Firecheck encapsulates and seals all forms of asbestos in a durable, impact resistant sheath of very low permeability - an effective answer to a potential health hazard. The treatment is detailed in our leaflet 'Decadex Firecheck - an effective sealer for asbestos'.

Front: Decadex Firecheck protects insulation on beer storage tanks for South African Breweries Ltd.

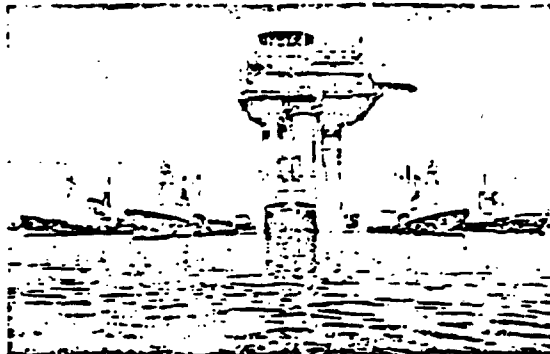
COVERAGE

Walls and Ceilings

Every gallon of Decadex Firecheck will give a TOTAL maximum treatment of 70sq. ft. (or 1.8m²/litre). Two layers must be applied and each must be LAID on at a coverage of not more than 140sq. ft. (or 3.6m²/litre). Each gallon of PP Sealer will cover between 145 and 240sq. ft. (or 3.5 to 6.0m²/litre). Other PP Primers will average 200 to 300sq. ft. per gallon (or 5 to 7.5m²/litre). Porous, Rough or Irregular surfaces will reduce the coverage.

CONTAINER SIZES

Decadex Firecheck is available in 5 and 1 gallon containers. Sealers and Primers are supplied in 5-2½ and 1 gallon containers.



Mobil Condeep Oil Production Platform: Decadex Firecheck applied to all surfaces of Marine Mandolite vermiculite fire proofing and acoustic insulation, manufactured by Mandoval Ltd., U.K.

SPRAYING

Decadex Firecheck can be applied using most types of industrial equipment, either airless or conventional. Two coats must be applied and it is strongly advised that different colors be used for the two coats to ensure even application. During spraying the operative must be satisfied that the finish reaches the correct thickness, details of which can be found in the section dealing with coverage. In very special circumstances, one single coat can be applied up to the prescribed thickness, although information should always be obtained from the manufacturers before this method of application is adopted.

BRUSHING

Decadex Firecheck can easily be applied by brush and the correct method of application is to lay on the first coat evenly, finishing in one direction only. After the first coat has dried, the second layer should be applied and finished by brushing at right angles to the first.

All brushes and equipment can be cleaned with water so long as the Decadex Firecheck compound is wet.

COLORS

Decadex Firecheck is supplied in the following colors: White, light blue, cream, light gray, mid gray, black. Special colors can be made to order by prior arrangement.

APPLICATION DATA

Surfaces must be clean and free from dampness, oil, dirt, and dust. Follow the instructions on the can label, as these are not instructions for use. **HARDBOARD, WOOD, ABSORBENT COMBUSTIBLE MATERIALS SUCH AS STRAWBOARD, CARDBOARD, FIBERBOARD, ETC.** Apply Firecheck directly to these surfaces.



02099494

Decadex Firecheck applied to polyurethane foamed insulation on Oil Tanks for B.P. Oil Ltd.

POLYSTYRENE and POLYURETHANE FOAM. Decadex Firecheck can be applied directly to these surfaces.

POLYURETHANE MOLDINGS, Etc. Polyurethane moldings of the integral skin type should first be given a single coat of PU Primer. **GLOSS PAINTED SURFACES.** Sand before applying Firecheck directly to the surface.

UNPAINTED METAL SURFACES. Apply a full coat of PP Metal Primer.

NON-BLEEDING ASPHALT, BITUMEN or PITCH IMPREGNATED SURFACES. Apply a coat of PP Bitumen Primer and allow to dry, taking care not to overbrush. For Bitumen surfaces liable to "bleeding" request further technical advice.

MASONRY, CONCRETE, PLASTER, CEMENT, Etc. A coat of PP Sealer is required to treat all surfaces.

OVERCOATING OLD FIRECHECK. Apply a single coat of PP Sealer and allow to dry before covering with new Firecheck. **CRACKS, GAPS and JOINTS LIABLE to MOVEMENT.** These must be bridged using Flexitape which is obtainable from the supplier.

FLEXITAPE REINFORCEMENT. Additional surface strength can be achieved on expanded polystyrene or other materials by embedding 39.4" Flexitape in the Firecheck.

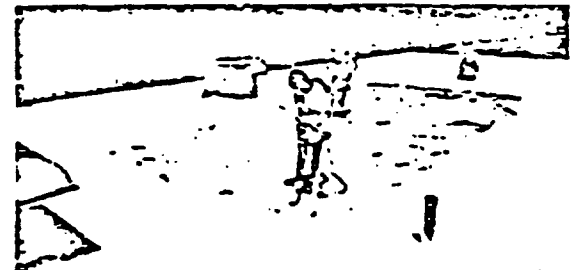
SUBSIDIARY PRODUCTS. PP Sealer, Wood, Bitumen, Metal and PU Primers are available, together with Flexitape.



a) Breakdown of conventional roofing system prior to removal



b) Fire barrier board installation on steel deck



Hendries Corp. 12,000 ft. computer office roof
c) Decadex Firecheck being applied over 2" sprayed urethane to finalise system

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TEST DATA

POINT OF TEST carried out by the Laboratory for the of Fuel and Heat Transfer in Ghent.
 Description of the test materials: For ten days, the samples were initially exposed at a temperature of $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$, and a relative humidity of $60\% \pm 5\%$. Decadex Firecheck was applied onto these consisting of cement sheet 10mm thick and with a volume $\approx 650\text{g}/\text{m}^2$. The total thickness of the substrate, first and second coat, amounts to $\approx 0.4\text{mm}$, the total dry weight is $\text{kg}/\text{m}^2 \approx 70\text{g}/\text{m}^2$.
 Description of the Test:

Indication of reaction with Fire: Test in accordance with the specification of the Belgian norm: NBN 713.030 'Reactie bij brand van materialen'. Result: The amount of reaction with is 0.02.

The Inflammability: Test in accordance with the specification the French norm: "Securite contre l'incendie—decret No. 1161 du 17 Octobre 1957; arrete du 9 Decembre 1957—on mise a jour a la date du 30 Mars 1965". Result: Non-inflammable material.

The Surface Spread of Flame: Test in accordance with the specification of the English norm: "B.S. 476 Part 2—Surface spread of flame test for materials". Result: Class 1: Surfaces with very slow flame spread.

Contribution of Flame Spread: Test in accordance with specifications of the Dutch norm: NEN 1076—uitgave Oktober 3—hoofdstuk C "Bijdrage tot vlamoverslag en ontvlambaarheid". Result: Class 1: Materials which do not contribute to flame spread.

TISH STANDARDS
 476 Part 5: Ignitibility—
 Polystyrene coated with Decadex Firecheck. Result Class P, easily ignitable.

Gloss paint coated with one coat of PP Sealer and two coats Decadex Firecheck. (Test carried out by Warrington Research Center.) Result: Class P, not easily ignitable.

476 Part 6: Fire Propagation—
 Polystyrene coated with Decadex Firecheck. Result: Class 0. (Test by Warrington Research Station, Boreham, Essex.) Polystyrene coated with Decadex Firecheck—Result: Class 0. (Test by Warrington Research Center.)

Gloss paint coated with one coat of PP Sealer and two coats Decadex Firecheck. (Test carried out by Warrington Research Center.) Result: (I) 2.6p, (II) Zero (Class 0).

476 Part 7: Spread of Flame—
 Urethane Result: Class 1 Polystyrene Result: Class 1
 Styro Result: Class 1 Chipboard Result: Class 1
 Corrugated Cardboard Result: Class 1

All samples coated with Decadex Firecheck.
 476 Part 9: Smoke Emission—Result: 43.5% Transmission
 Density 8%, light absorption 81%.

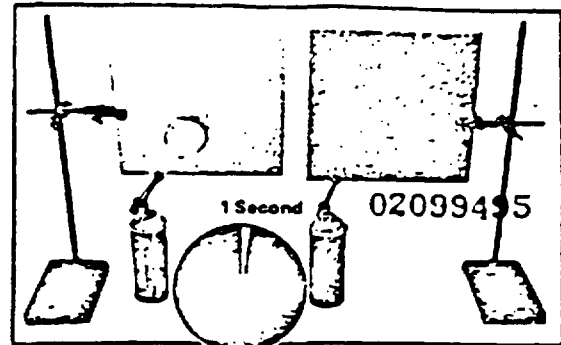
T.M. 2843-70: Density of Smoke Emission—Result: Smoke
 Density 8%, Light Absorption 81%.

CHEMICAL RESISTANCE: Samples of Decadex Firecheck film prepared and aged for two weeks at a temperature of 20°C . Samples were immersed in a range of organic and inorganic acids concentration of 10% for seven days and examined for signs of breakdown. Exposure to a range of solvents and also to flammable substances was also undertaken. The general resistance of Decadex Firecheck to acids, alkalis and solvents is good with the exception of xylene, methyl ethyl ketone, cyclohexanone, chloroform. Ref: MPLI/7113.

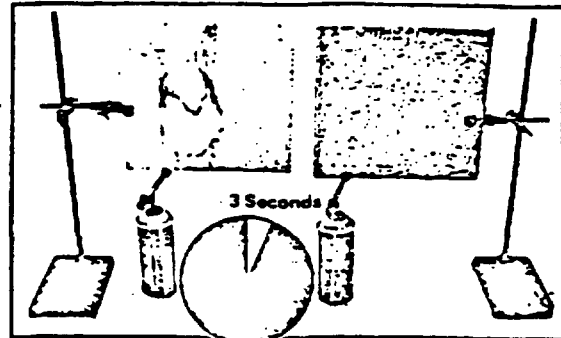
STABILITY: Samples of Decadex Firecheck were prepared and stored for two weeks at a temperature of 20°C . These were then placed in an oven at a controlled temperature of 100°C for one month to observe any loss of flexibility or embrittlement. At the end of one month the Decadex Firecheck film remained completely flexible with an absence of yellowing or other change. Ref: HA 12/73.

ULTIMATE: Unsupported samples of Decadex Firecheck were prepared, aged for two weeks and then placed in a climatic chamber. The tests provided intermittent radiation of ultra-violet and infra-red radiation and simulated tropical conditions including heavy rainfall with an air temperature of 45°C . At the end of 5,000 hours there was a dulling of the surface and some

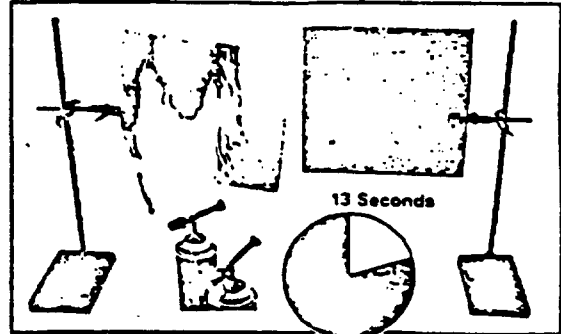
loss of color otherwise no change. Ref: L.O. Veld 17/73
VAPOUR PERMEABILITY: B.S. 3177, 25°C , 75%RH. Test carried out by R. H. Harry Stanger. Samples of Decadex Firecheck were prepared and tested in accordance with the specification. Average vapour permeability was $25.2\text{g}/\text{m}^2/\text{day}$. By comparison flexible PVC averages 50, nylon 6 equals 65, and polystyrene averages 55. Ref: CWO/RO/462/73



PHOTOGRAPHS OF ACTUAL 'FIRECHECK' TEST



FLAME CONTACT REMOVED FROM ORDINARY



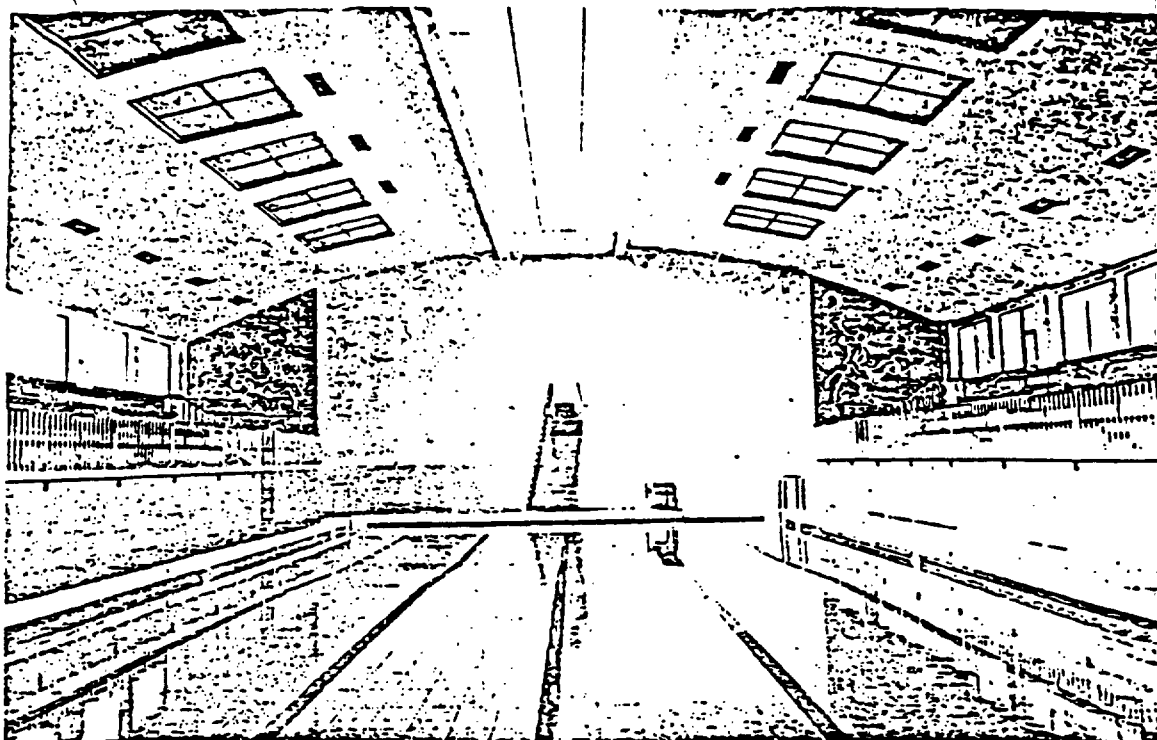
E.P.S. CEILING TILE AT 10 SECONDS

THIS SAMPLE DISC OF
 RANDOM THICKNESS
 IS MADE ONLY OF
 'FIRECHECK'

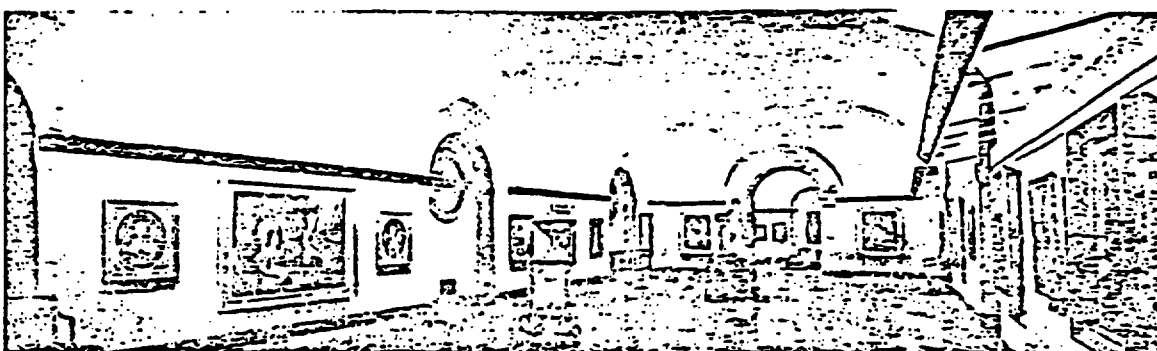


Pentagon Plastics U.S.A. Ltd.,
 7659C Fullerton Road,
 Springfield, Virginia 22153.
 (703) 569-5277/8

136(27)



b



c

Sound absorption

The following reverberation absorption coefficients were measured in a test by the Acoustical Investigation & Research Organisation Limited

Thermal insulation

$k = 1.00 \text{ Btu in/ft}^2 \text{h}^\circ\text{F}$
 $k = 0.14 \text{ W/m}^2 \text{ }^\circ\text{C}$
 $\lambda = 0.124 \text{ kcal in/m}^2 \text{h}^\circ\text{C}$

A separate information sheet is available, see page 36

b Swimming pool at Arthur Guinness and Company Limited, Dublin

c Prado Museum, Madrid by courtesy of Revestimientos Aislantes Refractarios I Zichy

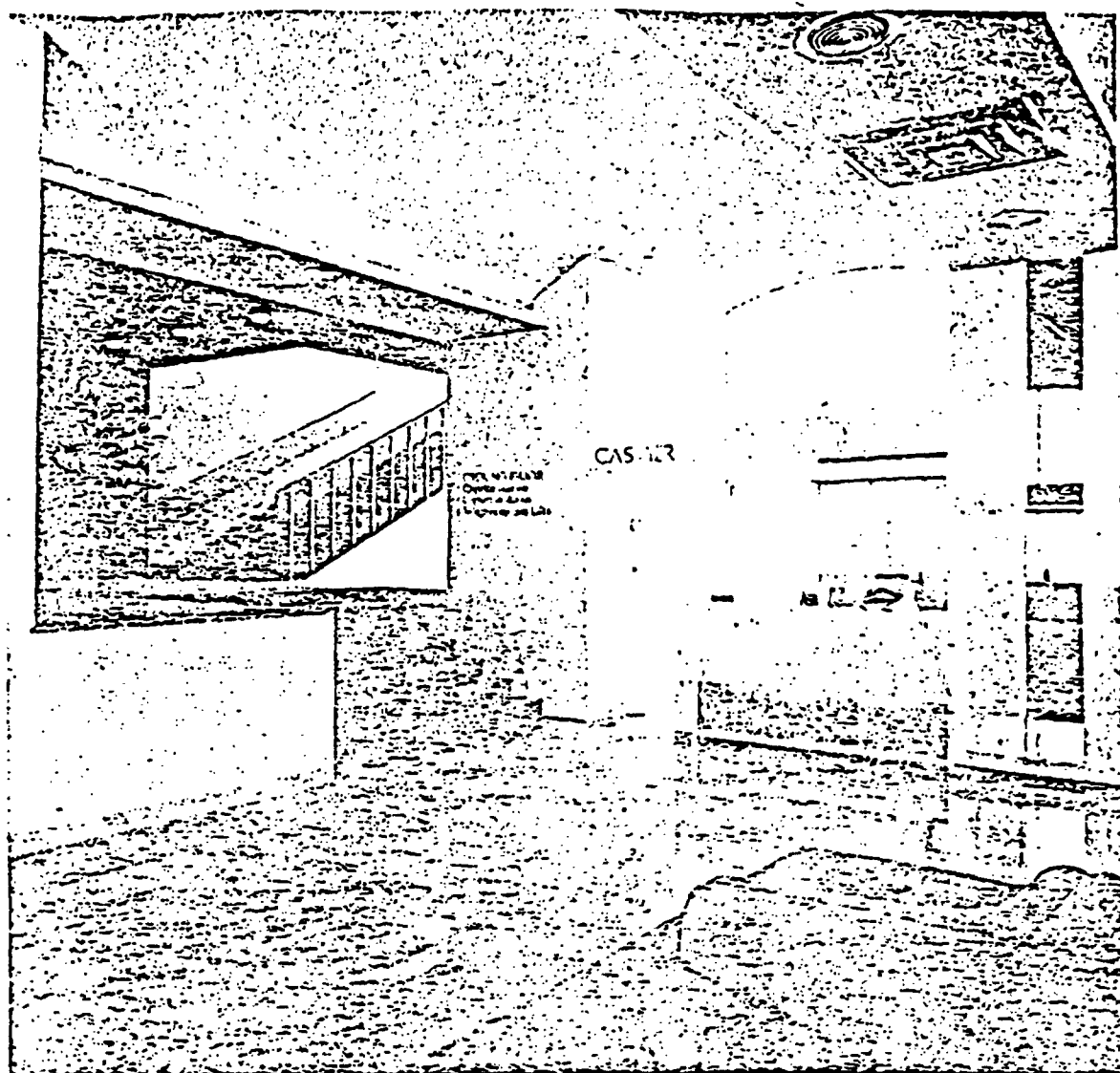
Frequency bands in region (cycles)

125	250	500	1,000	2,000	4,000
0.20	0.30	0.50	0.65	0.90	0.90

The test sample consisted of Audex 12.5 mm ($\frac{1}{2}$ in) thick applied by spraying machine to expanded metal lath to which two coats of lightweight plaster had been applied. There was a 7.5 cm (3 in) air gap between the sample and the floor of the test chamber

Densitec

Audex acoustic plaster



Audex is a decorative acoustic plaster with a proven history of successful sound control. It consists essentially of vermiculite and mineral binders. It is clean to handle and is asbestos-free. Audex is applied by a special spraying process giving an attractive textured finish and ensuring maximum sound absorption. No further decoration is necessary. It presents an unbroken soffit as an alternative to the repeated pattern of a panelled ceiling. Its physical structure and insulating properties make it valuable for anti-condensation treatments – for instance in power stations, swimming pools and kitchens.

■ Corinthia Palace Hotel, Malta

Competitive Products Various
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Boxes 445

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