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ARMSTRONG

RESPONSE TO ASBESTOS INFORMATION ACT

Armstrong World Industries, Inc.
Forms + Surfaces, Inc.
W. W. Henry Company

Published by AsbestosClaims.Law
asbestosclaims.law/library/25282/1

Armstrong

October 6, 1989

ATLIS Federal Service, Inc.
ATTN: EPA/AIA CLearing House
6011 Executive Boulevard
Rockville, MD 20852

Dear EPA/AIA Clearing House:

Subject: Document Control No. OPTS62073
Asbestos Information Act of 1988 (Public Law 100-577)
Submission by Armstrong World Industries, Inc.

Please find enclosed Armstrong world Industries, Inc.'s submission pursuant to Section 2 of the Asbestos Information Act of 1988. At the suggestion of Mr. Thomas Tillman of EPA's staff, only one complete set (six volumes) of our resilient floor tile pattern books is being submitted at this time. If you should require the two additional sets of the pattern books, please contact me at (202) 296-2830.

Very truly yours,

William B. King

William B. King
Director, Government Relations

NSR

enclosures

cc: Thomas Tillman (no enclosures)

Armstrong World Industries, Inc 1025 Connecticut Avenue, NW Suite 1007 Washington DC 20036 202/296-2830

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CC Navy Sealer (LT Sealer)

Years of Manufacture: Approximately 1942 - 1962

Type of Product: Fire-resistant vapor barrier and adhesive for insulation cork

Identifying Characteristics: CC Navy Sealer -- light tan color, trowel and brush consistency
LT Sealer -- white, trowel and brush consistency

Formula information is attached.

ASBESTOS-CONTAINING MISCELLANEOUS MATERIAL

Vinyl Composition Tile

Years of Manufacture: (with asbestos) 1954 - June 1981 (commercial grade)
1954 - 1982 (residential)

Type of Product: Resilient Floor Tile

Identifying Characteristics: Non-friable material. See designated pattern book volumes for visual identification and protocol clarification statement.

Rubber Tile

Years of Manufacture: (with asbestos) 1955 - 1966

Type of Product: Resilient Floor Tile

Identifying Characteristics: Non-friable material. See designated pattern book volumes for visual identification and protocol clarification statement.

Asphalt Tile

Years of Manufacture: 1931 - 1972

Type of Product: Resilient Floor Tile

Identifying Characteristics: Non-friable material. See designated pattern book volumes for visual identification and protocol clarification statement.

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Hydrocord

Years of Manufacture: 1955 - 1983

Type of Product: Lining Felt and Backing for Sheet Vinyl Flooring

Identifying Characteristics: Non-friable material. Formula information for Hydrocord is attached.

S-89

Years of Manufacture: (with asbestos) 1965 to January 1983

Type of Product: Asphalt "Cutback" Floor Tile Adhesive

Identifying Characteristics: This non-friable asphalt cutback adhesive is black in color with a dried consistency of a heavy-bodied tar. Formula information for S-89 is attached.

S-90

Years of Manufacture: (with asbestos) 1934 to January 1983

Type of Product: Asphalt "Cutback" Floor Tile Adhesive

Identifying Characteristics: This non-friable asphalt cutback adhesive is black in color with a dried consistency of a heavy-bodied tar. Formula information for S-90 is attached.

Acoustic Cement (also known as 314 Acoustic Cement)

Years of Manufacture: (as an asbestos-containing material) Approximately 1945 - 1953

Type of Product: Adhesive, Acoustical Tile Installation

Identifying Characteristics: Acoustic Cement used for chemical bonding of the acoustic ceiling tiles to a structural member. Formula information attached.

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PROTOCOL FOR USE OF RESILIENT FLOOR TILE PATTERN BOOKS: CLARIFICATION STATEMENT.

Please note that not all floor tiles actually manufactured during the specific year under which the pattern is included in the pattern book contained asbestos. Because of limitations on our ability to determine the manufacturing location, etc., without access to the registered numbers (as distinguished from the pattern numbers) that appeared on the actual shipping documents and product carton for a particular shipment of material, a conservative approach to identification has been adopted. Therefore, the patterns depicted are those resilient floor tile products in which some chrysotile asbestos was used in the formulation of that particular pattern by at least one, but not necessarily all, Armstrong domestic manufacturing plants during the year under which it is included in the pattern book.

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Formulas

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FORMULA ATTACHMENT

THERMAL SYSTEM INSULATION

Nonpareil High Pressure Covering, Block and Cement

Patent No. 1,045,933	% by weight
Diatomaceous Earth	75
Lime Hydrate	12.5
Asbestos	12.5

Patent No. 1,812,306	% by weight
Diatomaceous Earth	27.5
Jeffersite	40.6
Hydrated Lime	27.5
Asbestos	4.4

Patent No. 1,799,255	% by weight
Diatomaceous Earth	52.6
Hydrated Lime	45.2
Asbestos	2.2

Nonpareil Facing Mix

Patent No. 1,799,255	% by weight
Portland Cement	50
Screened River Sand	46.75
Asbestos	3.25

or

Portland Cement	59
Asbestos	41

or

Portland Cement	82
Diatomaceous Earth Block Trimmings	18

Armaspray

Effective Date: 7/67

Formula:

Mineral Wool	20 parts
AW Amosite	2 parts
Portland Cement	1 part

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Effective Date: Special formulation produced 12/21 and 22/1966; 14,920 pounds produced (probably produced for one particular order).
Formula:

	% by Weight
Mineral Wool	71.86
Asbestos 6-D-5	7.19
Portland Cement	7.17
Barden Clay	9.02
Valvoline Oil	4.32
UCAR 891	.44
SPAN85	.02

Effective Date: 10/66

Formula:

	% by Weight
Mineral Wool	72.21%
Portland Cement	7.22
Barden Clay	9.03
Asbestos 6-D-5	7.22
Texaco Aleph Oil	4.34

Effective Date: 5/27/66

Formula:

	% by Weight
Mineral Wool	75.76
Portland Cement	7.58
Barden Clay	7.58
6-D-5 Asbestos	7.58
Texaco Aleph Oil	1.52

THERMAL SYSTEM INSULATION SUNDRIES - That prevented heat loss or gain or water condensation

CC Navy Sealer (LT Sealer)

	% by weight
Chlorinated resins and drying oils	Proportions Unknown
Asbestos and clay	Proportions Unknown
Xylol thinner	Proportions Unknown

MISCELLANEOUS ASBESTOS-CONTAINING MATERIALS

Hydrocord: Lining Felt and Sheet Vinyl Backing

Effective Date: August 31, 1970

Formula:

	0.25 & 0.28 mil	0.37 & 0.43 mil	0.37 mil
Asbestos chrysotile	83.1%	86.7%	86.3%
Latex	14.1%	13.0%	13.0%
Antioxidant	.3%	0.30%	.23%
Methyl Tuads	-	-	.23%
Sulfur	-	-	.23%
Fibersize	2.5%	-	-

Effective Date: April 15, 1969

Formula:

	15%	15%	20%	.028"
Asbestos Chrysotile	86.73%	86.26%	83.05%	85.49%
Latex	-	-	-	13.01%
Latex	13.01%	12.94%	16.62%	-
Antioxidant	.26%	.26%	.33%	.26%
Methyl Tuads	-	.26%	-	-
Sulfur	-	.26%	-	-
Fibersize	-	-	-	1.24%

Effective Date: March 15, 1961

Formula:

	% by Weight
A-25 Asbestos, Chrysotile 6-D	81.85
Latex L-5, SBR 2000	16.37
Antioxidant, SBR Type (A-20)	.33
Sodium citrate, Granular	1.39
Dispersing Agent (D-9)	.08

Effective Date: July 1, 1958

Formula:

	% by Weight
Asbestos, Chrysotile - 5D	78.81 - 76.99
SBR-2000 Latex	15.44 - 15.40
Flectol H	.32 - .31
Sodium Citrate	5.13 - 7.32

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Effective Date: 6/2/55

Formula:

	% by Weight
Asphalt 7080	46.60
Asbestos, Chrysotile KP	39.14
Xylol	14.26

Effective Date: December 1, 1949

Formula:

	% by Weight
7080 Asphalt	46.99 - 46.21
Asbestos, Chrysotile K. P.	39.47 - 38.82
Xylol, Solvent	13.53 - 14.97

Effective Date: May 3, 1949

Formula:

#7080 Asphalt	250.0 gal.
Asbestos 856 Chrysotile	1680.0 lbs.
Xylol	720.0 lbs. ± 36.0 lbs.

Effective Date: March 25, 1949

Formula:

#7080 Asphalt	250 gal.
Xylol	90.0 gal.
K. P. Asbestos Chrysotile	1680.0 lbs.

Effective Date: November 24, 1948

Formula:

#7080 Asphalt	250.0 gals.
Xylol	65.0 gals.
S-S Asbestos Chrysotile	1000.0 lbs.

Effective Date: November 8, 1948

Formula:

	% by Weight
7080 Asphalt	58.4
Xylol	10.4
SS Asbestos Chrysotile	31.2

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Effective Date: August 2, 1948

Formula:

7080 Asphalt	2000.0 lbs.
Xylol	76.0 gals.
K. P. Asbestos Chrysotile	1680.0 lbs.

Effective Date: May 13, 1948

Formula:

	% by Weight
Steam Distilled Asphalt	46.4
Xylol	14.6
K.P. Asbestos Chrysotile	39.0

Effective Date: September 12, 1942

Formula:

	% by Weight
Distilled Asphalt	46.0
K.P. Asbestos Chrysotile	36.0
Safety Solvent	18.0

Effective Date: August 17, 1938

Formula:

	% by Weight
Steam Distilled Asphalt	48.1
Xylol	11.4
K.P. Asbestos Chrysotile	40.5

Effective Date: June 14, 1937

Formula:

	% by Weight
Steam Distilled Asphalt	49.2
Xylol	11.0
K.P. Asbestos Chrysotile	39.8

Effective Date: March 31, 1936

Formula:

	% by Weight
Steam Distilled Asphalt	44.0
70-72° Naphtha	11.4
Carbon Tetrachloride	7.6
K.P. Asbestos Chrysotile	37.0

Effective Date: December 30, 1935

Formula:

	% by Weight
Steam Distilled Asphalt	42.8
70-72° Naphtha	8.6
Carbon Tetrachloride	8.6
K.P. Asbestos	40.0

314 Acoustic Cement

Effective Date: June 9, 1953

Formula:

	% by Weight
T-1 Vehicle (40.5 gals.)	46.76 - 43.97
Water	.58 - 1.09
Filler, Celite 110	1.45 - 1.36
Asbestos 7R-AC Chrysotile	3.61 - 3.40
Filler, Brunswick Clay	47.62 - 50.21

Effective Date: October 10, 1952

Formula:

	% by Weight
T-1 Vehicle (40.5 gals.)	44.64 - 42.31
Water	1.02 - .97
Filler Celite 110	2.62 - 2.48
Asbestos 7R-A.C. Chrysotile	2.14 - 2.03
Filler, Brunswick Clay	49.60 - 52.23

Effective Date: June 22, 1950

Formula:

	% by Weight
T-1 Vehicle (34.9 gals.)	41.43 - 38.67
Solvent, Denatured Alcohol (4.0 gals.)	3.86 - 3.60
Asbestos 7R-A.C. Chrysotile	4.72 - 4.40
Filler, Brunswick Clay	50.00 - 53.34

Effective Date: February 20, 1950

Formula:

	% by Weight
T-1 Vehicle (34.9 gallons)	39.41 - 37.86
Solvent, Denatured Alcohol (4.0 gallons)	3.67 - 3.53
Asbestos, 7R-A.C. Chrysotile	4.49 - 7.96
Filler, Brunswick Clay	52.45 - 54.18

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Effective Date: July 16, 1948

Formula:

	% by Weight
T-1 Vehicle	39.89 - 38.31
Alcohol, denatured	3.72 - 3.57
Asbestos, 7R Chrysotile	7.57 - 7.27
Clay, Brunswick	48.83 - 50.86

Effective Date: June 10, 1948

Formula:

	% by Weight
T-1 Vehicle	44.97 - 42.97
Denatured Alcohol	4.19 - 4.00
7R Asbestos Chrysotile	5.12 - 4.89
Clay, Brunswick	45.74 - 48.15

Effective Date: January 2, 1947

Formula:

	% by Weight
Acoustical Adhesive Vehicle	41.26 - 39.57
Denatured Alcohol	3.84 - 3.69
7R Asbestos Chrysotile	4.41 - 4.23
Clay, Brunswick (Filler #206) or Albanite (Filler #233)	50.50 - 52.53

FORMS + SURFACES

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FORMS+SURFACES

October 6, 1989

EPA/AIA Clearing House
ATLIS FEDERAL SERVICE, INC.
6011 Executive Boulevard
Rockville, MD 20852

Dear EPA/AIA Clearing House,

Subject: Document Control No. OPTS62073;
Asbestos Information Act of 1988 (Public Law 100-577)
Submission by Forms + Surfaces, Inc.

Please find enclosed Forms + Surfaces, Inc.'s submission (in triplicate) pursuant to Section 2 of the Asbestos Information Act of 1988.

Very truly yours,

FORMS + SURFACES, INC.

Richard L. Oliver
Vice President
Director of Manufacturing

RLO:js

Enclosure

Box 5215 Santa Barbara, CA 93150 Tel (805) 969-7721 Fax (805) 565-1578 Tlx 65-8436

RESPONSE TO ASBESTOS INFORMATION ACT

EPA/AIA: DOCUMENT CONTROL # OPTS 62073

Manufacturer: Forms + Surfaces, Inc.
Box 5215
Santa Barbara, CA 93150

Asbestos-Containing Materials:

For a very short period of time during 1970 - 1971, Forms + Surfaces fabricated a limited number of custom-ordered "bonded bronze" panels which used a commercially available asbestos cement board as a backing material and which had an end use as decorative wall treatment. Forms + Surfaces was not the manufacturer of the asbestos cement board and, therefore, the type and percentage of asbestos and other formula information is unknown.

W. W. HENRY COMPANY

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THE W.W. HENRY COMPANY 5608 SOTO STREET HUNTINGTON PARK CALIFORNIA 90[illegible] • (213) 583-4961

HENRY

October 6, 1989

ATLIS Federal Service, Inc.
ATTN: EPA/AIA Clearing House
6011 Executive Boulevard
Rockville, MD 20852

Dear EPA/AIA Clearing House:

Subject: Document Control No. OPTS62073;
Asbestos Information Act of 1988 (Public Law 100-577)
Submission by the W. W. Henry Company

Please find enclosed the W. W. Henry Company submission (in triplicate) pursuant to Section 2 of the Asbestos Information Act of 1988.

Very truly yours,

Charles G. Boyd, CSP., IH
Manager Government Regulations
Compliance & Safety

SLP

Enclosure

CORPORATE OFFICE 5608 Soto St., Huntington Park, CA 90255 • (213) 583-4961 • FAX (213) 582-8451

MANUFACTURING PLANTS

5920 Alamo Street, Maywood, CA 90270 • (213) 583-4961 • FAX (213) 771-6188
210 W. Taft Avenue, Orange, CA 92667 • (714) 282-1240 • FAX (714) 974-6133
3233 W. 36th Street, Chicago, IL 60632 • (312) 254-3510 • FAX (312) 254-7624
Foot of Whitehead Avenue, South River, NJ 08882 • (201) 254-2424 • FAX (201) 254-8683
520 W. 3rd Street, Dover, OH 44622 • (216) 343-4535 • FAX (216) 343-6387
1101 Avenue G East, Arlington, TX 76011 • (817) 649-8070 • FAX (817) 633-4408

RESPONSE TO ASBESTOS INFORMATION ACT

EPA/AIA: DOCUMENT CONTROL # OPTS 62073

Manufacturer: The W. W. Henry Company
5608 Soto Street
Huntington Park, CA 90255

Asbestos-Containing Materials:

#232 Asphalt Cutback Adhesive

Years of Manufacture: 11/1965 to 4/1987
(with asbestos)

Type of Product: Floor Tile Adhesive

Identifying Characteristics: This non-friable asphalt cutback adhesive is black in color with a dried consistency of a heavy-bodied tar. Formula information for #232 Asphalt Cutback Adhesive is as follows.

	% by weight
Asphalt	63
Asbestos, Chrysotile	5
Solvent	32

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NOTES

(A) Product formulas published to feds 1989