PLAINTIFF'S EXHIBIT

USG-941



SINCE 1929

# SprayDon®

## Sprayed Mineral Fiber

- FIREPROOFING
- THERMAL INSULATION
- CONDENSATION CONTROL
- ACOUSTICAL ABSORPTION
- HIGH TEMPERATURE INSULATION
- SOUND ATTENUATION

GP045 0113

# SprayDon PRODUCTS

SPRAYDON products are designed to fill modern needs for .... economical .... light weight .... efficient .... fireproofing, acoustical treatments and thermal insulation requirements. SPRAYDON products are scientifically formulated blends of virgin asbestos fiber, mineral wool and proprietary binders. Research advances in material formulation, coupled with advances in design of application equipment, have created the new SproyDon finishes which produce .... harder .... firmer .... more abrasion resistant surfaces.

## CHARACTERISTICS

### HIGH FIRE RESISTANCE

Tests by Underwriters Laboratories prove SPRAYDON firetest fiber as a fireproofing material of the highest efficiency.

### HIGH PERCENTAGE OF BINDERS

SPRAYDON STANDARD fiber has been formulated with a high content of binders which produce a harder, firmer surface with a superior resistance to abrasion and damage.

### DUST FREE APPLICATION

Improved SPRAYDON formulations eliminate application dustiness generally associated with conventional sprayed fiber products.

### LIGHT WEIGHT

SPRAYDON standard fiber weighs an average of one pound per board foot and result in substantial savings in dead load.

### RAPID APPLICATION

SPRAYDON is quickly applied by machine to many surfaces in one pass using one trade ..... no delays for multiple coats .... speeds job schedules .... reduces costs.

### CORROSION PREVENTION

SPRAYDON standard has been tested in accordance with ASTM B117 and Military Specification E-5272C for 240 hours. Results show that the application of SPRAYDON fiber to shop coated steel, galvanized steel or plain steel prevents corrosion and thereby the need for field painting of steel is eliminated.

### COMPLIES WITH G.S.A. STANDARDS

SPRAYDON standard has been tested in accordance with standards set up by the General Services Administration and has equalled or surpassed all requirements. Withstands high air erosion-SPRAYDON standard has been tested and proved to withstand high air erosion-details on request.

## PRODUCT GUIDE

### SPRAYDON "STANDARD"

: specify for fireproofing of steel beams, girders, columns and metal deck and roof assemblies ....tested by both Underwriter's Laboratories, Inc., and Underwriter's Laboratories of Canada ....manufacturing controls, procedures and formulations regularly inspected by Underwriter's representatives. (Refer to pages 4 & 5).

: specify for acoustical installations ....used either alone or in combination with SPRAYDON TYPE No. I (Refer to page 3.)

: specify for condensation control in problem areas (Refer to pages 6 & 7.)

### SPRAYDON "TYPE No. I"

: specify for harder finish ....light weight ....abrasion resistant .... acoustical installations ....may be used alone or in combination with SPRAYDON STANDARD. (Refer to pages 3 & 6.)

### SPRAYDON "TYPE No. II"

: specify for insulation requirements ....special formulations make SPRAYDON TYPE No. II a superior, incombustible, insulating material. (Refer to page 6.)

### SPRAYDON "TYPE No. III"

: specify for acoustical ceilings where only the hardness of a wet mix material will suffice. NRC ranging as high as .85. (Refer to page 3.)

### SPRAYDON "SPRAY–TEMP"

: specify for high temperature insulation or thermal insulation of high temperature processing equipment in the fields of power generating, refineries, steel processing, paper, textiles and chemicals. (Refer to page 7.)

### SPRAYDON "S A - 48"

: specify to reduce the transmission of sound through walls ....highly efficient and low in cost. (Refer to page 3.)

### SPRAYDON "ADHESIVE"

: used where required, is an incombustible latex type emulsion, applied prior to the spraying of the fiber mat to insure improved adhesion and bond strength.

### SPRAYDON "SEALER"

: used where required, is a clear latex type finish coat used to provide additional protection for the fiber mat.

GP045 0114

# SprayDon ACOUSTICAL TREATMENT

SPRAYDON fibers offer the architect complete design flexibility. SPRAYDON may be applied directly to poured concrete shapes, plaster, sheet rock or metal lath. SPRAYDON produces a monolithic surface following the contour of the base, thus eliminating design restrictions on ceiling configuration.

The desired level of acoustical control is easily achieved through varied material thicknesses, proper choice of type or SPRAYDON fiber, and selection of either a solid or metal lath backing.

The finished SPRAYDON surface may be textured to suit the objective of the designer. Textures may be varied from fine to coarse travertine.

The color specifications of the decorator are easily achieved because SPRAYDON may be treated with latex type paints without reduction in sound absorption.

## Sound Absorption Characteristics

| | thickness inches | mounting | coefficient of sound absorption at cps 125 | 250 | 500 | 1000 | 2000 | 4000 | noise reduction coefficient |
|---|---|---|---|---|---|---|---|---|---|
| SPRAYDON | ⅜" | solid | .08 | .19 | .37 | .61 | .79 | .78 | .50 |
| | ½"** | solid | .38 | .20 | .57 | .73 | .75 | .74 | .60 |
| | ¾" | metal lath | .46 | .65 | .75 | .81 | .89 | .87 | .80 |
| | ¾"** | metal lath | .49 | .65 | .88 | .93 | .90 | .87 | .85 |
| | 1"** | solid | .59 | .50 | .71 | .91 | .91 | .88 | .75 |



The use of SPRAYDON provides the installation with a fire retardant surface which has a flame spread rating of 15 or less as tested by Underwriter's Laboratories (Refer to page 4.)

## SUGGESTED USES

. . . .for finishing of formed concrete surfaces . . . .thicknesses varied to eliminate or minimize base irregularities.
. . . .for a skim coat over gypsum board or plaster base for a low cost ceiling finish with acoustical properties.
. . . .for a finish coat for desired texture in areas where a higher level of acoustical control is required.

## SPRAYDON TYPE No. I

. . . .for acoustical control or correction in easily accessible locations, where hardness, resistance to abrasion and damage are important considerations. (Ex. low ceiling areas and side wall applications.)
. . . .for a harder finish coat (1/4" - 3/8") over STANDARD fiber in areas where the higher sound absorption values or insulation qualities of STANDARD fiber are desired.

## SPRAYDON STANDARD

. . . .for treatment of acoustical problems in areas requiring the utmost in noise control or reduction. (Ex. high ceiling areas, vaulted ceilings, auditoriums, theaters, etc.)
. . . .for treatment of condensation problems.
. . . .for fireproofing of steel.
. . . .in combination with TYPE No. I as outlined above.

## SPRAYDON TYPE No. III

. . . .the wet mix sprayed fiber which dries to a fine, white, granular finish with an NRC range as high as .85 when applied to a type 7 mounting.

## SPRAYDON "S A 48"

SPRAYDON "SA 48" fiber has been specially designed and formulated to be a highly efficient and low cost sound barrier to the transmission of sound through walls. Tests conducted in accordance with ASTM E90-66T show that when applied to the inside face of a gypsumboard wall erected on 2-1/2" metal studs (24" o.c.) the resulting STC value is:

1/2" gypsumboard - 1/2" SPRAYDON – 45
5/8" gypsumboard - 3/4" SPRAYDON – 48

| | HZ | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 |
|---|---|---|---|---|---|---|---|---|---|
| SPRAYDON | Transmission Loss, DB 1/2" | 22 | 26 | 33 | 37 | 37 | 41 | 44 | 44 |
| | 3/4" | 26 | 31 | 35 | 29 | 38 | 40 | 43 | 46 |
| | HZ | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 |
| | Transmission Loss, DB 1/2" | 45 | 46 | 48 | 49 | 50 | 48 | 48 | 49 |
| | 3/4" | 49 | 51 | 51 | 52 | 53 | 53 | 54 | 55 |

Santa Monica Library, Santa Monica, California
Architect: Mathew Leizer - Thomas J. Russell
General Contractor: Parr Contracting

GP045 0115

# SprayDon FIREPROOFING

## FIRE HAZARD CLASSIFICATION OF UNDERWRITERS' LABORATORIES

***SprayDon*** has been tested by the Underwriters' Laboratories, Inc.—for application to both combustible and non-combustible surfaces. In all cases, ***SprayDon*** achieved a flame spread of 15 or less.

| material | thickness in. | backing | flame spread | fuel contribution | smoke developed |
|---|---|---|---|---|---|
| SprayDon | ¾ | metal lath | 10–15 | 10–15 | 0 |
| | ¾ | cork | 15 | 20 | 0 |
| | ¾ | cellulose board | 15 | 10–15 | 0 |

ref: R3655, 53C3636, R3656, 53C3635



Equitable Life Bldg., 3435 Wilshire Blvd., Los Angeles, Calif.
Architect: Welton Becket & Associates
General Contractor: Turner Construction Company

## typical installations

**Federal Office Building No. 7: United States Court of Claims & Patent Appeals — Washington D.C.**
General Contractor: Blake Construction Co.
Architect: John Carl Warneke Associates

**Bell Telephone Data Center, Dorval, Que., Canada**
Architects: Webb, Zerafa Menkes
Contractor: Inspiration, Ltd.
Applicator: Donalco Services Ltd.

**The Life of Georgia Building, Atlanta, Georgia**
Architects: Bodin & Lamberson, Atlanta, Georgia
General Contractor: Daniel Construction Co., Atlanta, Georgia

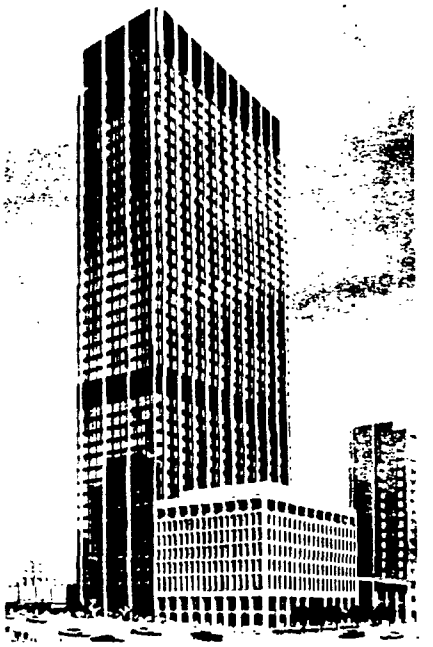
**American Tobacco Co., 245 Park Ave., N.Y.C.**
Owner Builder: Uris Construction Corp.
Architect: Shreve, Lamb & Harmon Associates

***Federal Office Building, West Los Angeles, California***
Architects: Charles Luckman and Associates, Los Angeles, Calif.
Contractor: C.H. Leavell and Co., Los Angeles, Calif.

**Atlanta Gas & Light Tower Bldg., Atalnta, Georgia**
Architect: Edwards & Portman, Atlanta, Georgia
General Contractor: J. A. Jones, Atlanta, Georgia



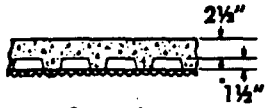
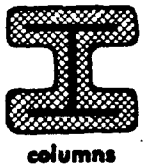
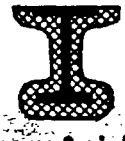
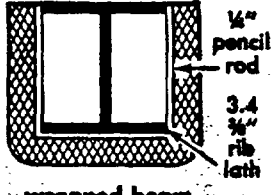
General Motors: 769 Fifth Ave., N. Y. C.
General Contractor: George A. Fuller Co., Inc.
Architects: Emery Roth & Sons—Edward Durell Stone
Sprayon Contractor: Metropolitan Spray Division of Giamboi Brothers, New York City



First National Bank, Atlanta, Georgia
Architect: Emory Roth and Sons, New York City
Finch, Alexander, Barnes, Rothchild and Paschal, Atlanta
General Contractor: Henry C. Beck Co., Atlanta
Sprayon Contractor: E. L. Thompson & Son, Inc., Atlanta

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# SprayDon FIRE RETARDANT RATINGS

| | | construction | SprayDon thickness | rating | authority |
|---|---|---|---|---|---|
| floors & roofs | 1. |   fluted | 1/2" 1 – 1/16" in Flute | 3 hr. | U.L.C. 265-2 |
| | | | 1/2" 1 – 1/16" in Flute | 2 hr. | U.L.C. 265-2 |
| | 2. |   flate plate | 1/2" | 3 hr. | U.L.C. 265-2 |
| | | | 1/2" | 2 hr. | U.L.C. 265-2 |
| | 3. |   blended* | 1/2" 7/8" in Flute | 3 hr. | U.L.I. R3655-3 |
| | | | 3/8" 5/8" in Flute | 2 hr. | U.L.I. R3655-7 |
| | 4. |   cellular | 1/2" 1 – 1/16" in Flute | 3 hr. | U.L.C. 265-2 |
| | | | 1/2" 1 – 1/16" in Flute | 2 hr. | U.L.C. 265-2 |
| columns | 5. |  columns | 1+ Small / 2+ Med / 3+ Large | | U.L.I. R3655-5 & 6 R3365-10 & 11 |
| | | | 2-5/16" 1-1/2" 1-3/8" | 4 hr. | |
| | | | 1-7/8" 1" 1" | 3 hr. | |
| | | | 1-7/16" 3/4" 3/4" | 2 hr. | |
| beams | |  beams & girders | 3/8" ** | 4 hr. | U.L.I. R3655-7 |
| | | | 3/8" | 3 hr. | U.L.I. R3655-7 |
| | | | 3/8" | 2 hr. | U.L.I. R3655-7 |
| | 7. |   wrapped beam | 1 – 1/4" | 4 hr. | U.L.C. 265-2 |

Trench headers require ¼" additional for 3 hr. rating, ½" for 2 hr. rating

*Both composite and non-composite construction

**Beam thicknesses are based on normal load method. Information on time - temperature method at 1,000, 1,100, and 1,200 degrees F. avg. available on request. Spraydon Standard Fiber may be Tamped or left Untamped at the thickness shown. Surfaces do not require either Adhesive or Sealer to meet U.L. requirements.

+ Column Notes on Sizes
1. Smaller than 14WF228
2. From 14WF228 to 14WF237
3. 14WF237 or larger

GP045 0117

# SprayDon INSULATION AND CONDENSATION CONTROL

SPRAYDON TYPE NO. II fiber, with a k factor of 0.26 BTU/hr./sq. ft./inch of thickness, provides highly efficient thermal insulation as illustrated in the accompanying table.

SPRAYDON installations in areas such as boiler rooms, metal buildings and to masonry surfaces perform three functions with a single application... thermal insulation... acoustical correction... and condensation control.

In ceiling applications for swimming pool areas SPRAYDON serves four functions .... insulates an area which must be maintained at elevated temperatures .... solves an extremely difficult acoustical problem .... helps solve condensation problems .... and minimizes corrosion caused by the presence of moisture and chlorine.

In any area where extreme temperature variations occur on the opposite sides of the same material, wall or ceiling, the application of the proper thickness of SPRAYDON will provide the required insulation and reduce heating or cooling costs. (Ex. metal building walls and roofs, metal roof systems, above and below grade concrete ceilings and walls)

Type No. I SPRAYDON with a k factor of .41 may be sprayed directly to masonry walls to receive direct plaster application, eliminating furring and lathing.

Heat Loss Characteristics Expressed in "U" Values

| CONSTRUCTION | concrete slab, inches | not insulated | SPRAYDON THICKNESS, INCHES | | | |
|---|---|---|---|---|---|---|
| | | | ½ | 1 | 1½ | 2 |
| built-up roofing on concrete roof slab  | 4 | .72 | .30 | .19 | .14 | .11 |
| | 6 | .64 | .28 | .17 | .13 | .10 |
| metal deck with ½ inch roof insulation and built-up roofing  | None | .40 | .23 | .16 | .12 | .10 |
| corrugated metal or transite wall  | None | 1.18 | .36 | .21 | .15 | .12 |



GP045 0118

New Service Premises Quigg Motors Limited
St. John, New Brunswick
Applicator: Nova Spray Services Ltd.

# SprayDon "SPRAY – TEMP" — HIGH TEMPERATURE THERMAL INSULATION

SPRAYDON SPRAY-TEMP is a spray applied formulation of inorganic mineral fiber combined with special binders for high temperature processing equipment. Spray-Temp may be applied directly to irregular sections and contours in a joint free blanket. Some typical uses are: boilers, ovens, steam pipes, turbines, precipitators, heaters, flues, spray booths, heat exchangers, tanks, breechings, dryers, ducts, kilns, condensers, digesters, furnaces, pipes, and enclosures.

## PHYSICAL PROPERTIES*

### General

Resistance:
To Corrosion – Good
To Solvents – Excellent
To Alkalies – Good
To Acids – Poor
To Fungus – Excellent

Specific Heat – .20
Heat Capacity – .2 BTU/bd.ft/°F
Loss on Ignition – 5.6%
Volume Shrinkage – 3.6%
Linear Shrinkage – 0.37%

*Average values from accepted test methods

### COMPRESSIVE STRENGTH

| % deformation | 11 lbs. density | 15 lbs. density |
|---|---|---|
| 5 | 196 psf | 625 psf |
| 10 | 300 psf | 942 psf |
| 25 | 920 psf | 1910 psf |

### TEMPERATURE LIMITATIONS

Maximum Service Temperature..... 1600°F
Maximum Application Temperature..... 600°F
Sintering Point..... 1700-1900°F
Melting Point..... 2200-2600°F
Flash-flame point None

### COVERAGE

80-120 board feet per CWT (avg. 100)
.9-1.25# /board foot (avg. 1.00)
Density — 11-15 pcf (avg. 12 pcf)
Specific Gravity — 2.28

### STRENGTH

Bond — 100-300 psf (avg. 150 psf)
Shear — 150-275 psf (avg. 200 psf)

### THERMAL CONDUCTIVITY

(k factor) BTU/inch/hr./sq.ft./F°

| Mean Temperature °F | k Factor | Mean Temperature °F | k Factor |
|---|---|---|---|
| 50 | .240 | 500 | .520 |
| 75 | .260 | 600 | .585 |
| 100 | .275 | 700 | .645 |
| 200 | .345 | 800 | .700 |
| 300 | .405 | 900 | .760 |
| 400 | .460 | 1000 | .835 |

### TYPICAL APPLICATION THICKNESSES STEAM TURBINES

| Steam Temp. °F | Max. Surface Temp. (80° ambient) | Insul. Cement | Thickness Calcium Silicate | Spray Don Spray-Temp |
|---|---|---|---|---|
| below 250 | 100 | 2 | 1½ | 1½ |
| 250-349 | 110 | 2½ | 2 | 2 |
| 350-449 | 115 | 3½ | 2½ | 2 |
| 450-549 | 120 | 4 | 3 | 2½ |
| 550-649 | 125 | 5 | 3½ | 3 |
| 650-749 | 125 | 6 | 3½ | 3½ |
| 750-849 | 130 | 6 | 4 | 4 |
| 850-949 | 135 | 6½ | 4½ | 4 |
| 950-1049 | 135 | 7 | 4½ | 4½ |
| 1050-1149 | 140 | 8 | 5 | 5 |
| 1150-1250 | 145 | 9 | 5½ | 5½ |

On outdoor installations an additional ½" thickness is often used on areas which are exposed to weather.

## ADVANTAGES

ECONOMICAL APPLICATION Applied by SprayDon-trained, licensed contractors employing special equipment, Spray-Temp may be installed to "on line" equipment, eliminating expensive down time.

JOINT-FREE APPLICATION Spray-Temp's monolithic coating eliminates critical heat loss at the seams and between layers of laminated insulations. Cutting and fitting are eliminated, scrap costs are eliminated and what is left is a one piece contour fitting blanket.

DUST-FREE APPLICATION SPRAYDON Spray-Temp has been formulated for the utmost in clean, fast, dust-free applications within critical areas; no respiratory hazards or dust contamination.

PERMANENCE Spray-Temp will not putrefy and is mildew and rot proof. The monolithic application moves with normal expansion and contraction of processing equipment without cracking or spalling.

## GENERAL TECHNIQUES OF APPLICATION

In order to insure good adhesion, surfaces of the equipment to be sprayed must be clean and free of grease, rust, oil, or loose paint. All pins and/or studs shall be securely placed. The surface of the equipment is first wet with water and then SPRAY–TEMP is applied to a maximum of four inches thick per application. If heavier thicknesses are required, SPRAY–TEMP is then tamped, reinforcing is secured and subsequent layers are applied and tamped. Special additives permit the finish coat to be wetted slightly and troweled to a smooth texture.

After the SPRAY–TEMP has been applied, the product may be finished with any number of products including asbestos finishing cements, weatherproof mastics, industrial paint or metal lagging, but only after SPRAY–TEMP has thoroughly dried. In some cases protection from the elements is desirable immediately; in which case, a coating should be chosen which will permit the release of moisture during the initial 60-90 day period, and thereafter provide excellent resistance to moisture and vapor.

## SPECIFIC APPLICATIONS

Steam Turbines: The lower half of the casing shall be reinforced with either split welding pins or drilled and tapped 18" o.c. Apply SPRAY–TEMP to the desired thickness, tamp and apply 1" hexagonal 20 gauge wire to pins or studs. Wire may be either Stainless steel or Monel and shall be stretched tightly and secured by bending the pins or by speed washers on the studs. If the surface is to be metal clad, the fiber shall be allowed to dry thoroughly and left in the tamped finish. If metal cladding is not used, then a coat of finishing cement shall be troweled on 1/4" thick and scored on 4' centers.

Vessels, Ducts, Fans, Flash Tanks, Boilers, Steam Drum Heads and Stage Heaters: The same instructions shall be followed as for Steam Turbines except that the entire area shall be covered with welded pins 12 - 18" o.c. If a more finished surface is desired 6 or 8 oz. canvas may be laid over the cement finish lapping the seams about 3" and applying sizing.

Flue and Chimney Ducts: Steel pins welded on staggered centers shall be applied to the outer surface of the stack. After the application and tamping of SPRAY–TEMP the surface shall be wrapped with 1" hexagonal 20-gauge galvanized or Monel wire mesh reinforcement and securely laced. Apply asbestos cement to a thickness of 1/4" and provide expansion joints or score 4' to 6' o.c.

Outside Storage Tanks, Heat Exchangers and Vertical Storage Tanks: Weld steel channels or angles on to the surface to be treated which extend 1/2" beyond the insulation thickness. Apply and tamp the SPRAY–TEMP to the desired thickness. Wrap and lace 1" hexagonal 20 gauge galvanized or Monel wire mesh over the surface and apply two coats of mastic finish. The first shall be flush with the wire mesh followed immediately with a second coat of about 1/8" in thickness.

Furnace Housing, Air Heaters, Induced Draft Ducts and Fans, Hot Air Ducts, Precipitators, and Gas Ducts: Weld on 10 gauge studs to the surface 24" o.c. on top, 18" o.c. on the sides, and 12" o.c. on the bottom. After the application and tamping of SPRAY–TEMP, wrap the surface with 1" hexagonal 20 gauge galvanized or Monel wire mesh and depress the mesh into the surface of the fiber. Hold in place with speed washers on the studs. A coat of finishing cement shall be troweled over the surface 1/4" thick (with or without corner beads) and scored 4' on centers.

### HEAT TRANSMISSION CHART FOR FLAT AND LARGE DIAM. SURFACES

| | 100° | | 200° | | 300° | | 400° | | 500° | | 600° | | 700° | | 800° | | 900° | | 1000° | | 1100° | | 1200° | | 1300° | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ST | H.L. | ST | H.L. | ST | H.L. | ST | H.L. | ST | H.L. | ST | H.L. | ST | H.L. | ST | H.L. | ST | H.L. | ST | H.L. | ST | H.L. | ST | H.L. | ST | H.L. |
| ½ | 85 | 8 | 109 | 60 | 136 | 100 | | | | | | | | | | | | | | | | | | | | |
| ¾ | 83 | 6 | 101 | 39 | 120 | 79 | 146 | 122 | | | | | | | | | | | | | | | | | | |
| 1 | 83 | 5 | 97 | 31 | 110 | 59 | 130 | 98 | 152 | 136 | 176 | 179 | | | | | | | | | | | | | | |
| 1½ | 82 | 3 | 92 | 22 | 100 | 42 | 120 | 66 | 130 | 96 | 147 | 126 | 166 | 150 | | | | | | | | | | | | |
| 2 | 81 | 2 | 89 | 17 | 96 | 33 | 108 | 52 | 120 | 75 | 130 | 96 | 146 | 124 | 163 | 150 | 180 | 187 | | | | | | | | |
| 2½ | 81 | 2 | 87 | 13 | 86 | 27 | 103 | 42 | 112 | 59 | 120 | 78 | 136 | 102 | 150 | 129 | 150 | 131 | | | | | | | | |
| 3 | | | | | | | 100 | 35 | 107 | 50 | 110 | 58 | 126 | 86 | 136 | 106 | 140 | 112 | 160 | 152 | | | | | | |
| 3½ | | | | | | | | | 100 | 42 | 105 | 54 | 120 | 75 | 130 | 94 | 130 | 97 | 150 | 132 | | | | | | |
| 4 | | | | | | | | | | | 100 | 49 | 116 | 66 | 126 | 83 | 125 | 84 | 140 | 116 | 150 | 132 | 166 | 156 | | |
| 4½ | | | | | | | | | | | | | 110 | 59 | 120 | 74 | 120 | 75 | 136 | 106 | 146 | 122 | 155 | 141 | 160 | 147 |
| 5 | | | | | | | | | | | | | | | 116 | 66 | 116 | 86 | 130 | 96 | 140 | 116 | 150 | 130 | 150 | 134 |
| 5½ | | | | | | | | | | | | | | | 110 | 60 | 110 | 60 | 126 | 84 | 136 | 102 | 140 | 112 | 146 | 122 |
| 6 | | | | | | | | | | | | | | | | | | | 120 | 74 | 130 | 94 | 130 | 98 | 140 | 113 |
| 6½ | | | | | | | | | | | | | | | | | | | | | 126 | 86 | 126 | 86 | 136 | 100 |
| 7 | | | | | | | | | | | | | | | | | | | | | 120 | 80 | 120 | 80 | 130 | 93 |
| 7½ | | | | | | | | | | | | | | | | | | | | | | | | | 126 | 84 |

NOTE: H.L.= Heat Loss (BTU/sq. ft./mr.) S.T.= Surface Temp.°F All Calculations are based on 80°F ambient still air.

*"Spray-Temp" embodies a new formulation and manufacturing technique which yield the improved results over our former product "Power-Kote." In order to eliminate any confusion with the old formulation or any competitive formulations, we have changed the name to "SPRAY–TEMP."

GP045 0119

# SprayDon architectural specifications guide

## FIREPROOFING. . . ACOUSTICAL TREATMENT. . . INSULATION

It is suggested that these specifications be made a separate section to eliminate a double mark-up.

## SPRAYED MINERAL FIBER

### GENERAL CONDITIONS:

The General Conditions of the Specifications form a part of this section and the conditions contained therein shall apply to work performed under this section.

### SCOPE OF WORK:

A. Work Included The work to be performed under this section shall include all materials, equipment, labor and services required to install the sprayed mineral fiber in accordance with this specification and as indicated on the drawings.
B. Work Not Included: Surfaces to which the sprayed fiber is to be applied, as well as all clips, hangers, clamps, supports, sleeves, stops and other attachments to the base surface, shall be installed by others prior to start of work covered by this section.

### SCHEDULING WORK WITH OTHER TRADES:

A. It shall be the responsibility of the General Contractor to coordinate all Sub-Contractors so that:
1. all items mentioned under "Scope of Work" paragraph "B," are installed prior to the installation of the sprayed fiber.
2. the installation of all ductwork, piping, fixtures, suspended ceilings, partitions, etc., shall follow the work covered by this section.
B. It shall be the responsibility of this Sub-Contractor to provide the General Contractor with accurate production schedules , so that the General Contractor may coordinate the work covered under this section with the work of other trades, in order to speed up the progress of the job.

### MATERIAL QUALIFICATIONS:

A. All sprayed mineral fiber shall conform to the applicable requirements of the local building code and have the approval of the pertinent municipal building authorities, for the required fire rating.
B. The fiber shall have a thermal conductivity (k) of not greater than 0.26 BTU/hr./sq. ft./inch of thickness.

### CONTRACTOR QUALIFICATIONS:

The Sub-Contractor shall be franchised by the manufacturer of the materials approved for use and shall use materials and application equipment approved by this manufacturer. All work shall be performed in strict accordance with the manufacturer's printed specifications and instructions, under the supervision of a manufacturer trained and approved foreman.

### MATERIALS:

A. The sprayed mineral fiber shall be SPRAYDON as manufactured for Sprayon Research Corporation by United States Gypsum Co., or approved equal, and consisting primarily of inorganic virgin asbestos fibers and mineral wool fibers blended with proprietary binders. The Sprayed Mineral Fiber shall be delivered to the job site in sealed paper bags, properly identified, and labeled to show the approval of Underwriter's Laboratories. (The last sentence for fireproofing only.)
B. Adhesive, where required, shall be SPRAYDON ADHESIVE or approved equal, consisting of a latex type emulsion which, after setting, is unaffected by moisture, freezing, or aging. (optional—Not required for fireproofing).
C. The sealer, where required, shall be SPRAYDON SEALER, or an approved equal. (optional)

### APPLICATION:

A. Inspection: This Sub-Contractor shall carefully examine all surfaces which will receive sprayed fireproofing and report in writing to the General Contractor, listing all unsatisfactory conditions. Sprayed fireproofing work shall not proceed until unsatisfactory conditions are corrected.
B. Surface Preparation Surfaces which are to receive sprayed fireproofing shall be reasonably free of dirt, grease, oil, loose paint, excessive rust scale or other foreign material which would prevent adequate adhesion.
C. Procedure: The application of sprayed mineral fiber shall be in accordance with the manufacturer's printed specifications and instructions. Thickness shall be sufficient to achieve the following ratings. *(Architect indicate surfaces and hourly ratings).* Where required, all surfaces to be treated shall be primed with SPRAYDON ADHESIVE. Sprayed fiber shall be applied while the adhesive remains tacky, tamped or left untamped to the required thickness and, where required, oversprayed with SPRAYDON SEALER, or water. (Tamping, adhesive and sealer NOT required for U.L. approval when fireproofing.)

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NOTE: **The above specification is intended for sprayed fireproofing work. Where acoustical or thermal insulation specifications are to be written, select appropriate paragraphs.**
**Thermal Insulation or Acoustical Treatment: Add following paragraphs:**
**Under Materials: A.**
**(1) Specify type SPRAYDON desired, STANDARD, TYPE No. I, TYPE No. II, SPRAY—TEMP, TYPE No. III, SA—48 or any combination.**
**(2) Specify thickness.**
**(3) Insulation Treatment: Specify thickness required or insulation value desired.**

GP045 0120

**SPRAYON RESEARCH CORPORATION**
**and subsidiary SPRAYON INSULATION AND ACOUSTICS, INC.**
**1101 N.E. 110th Street, Miami, Florida 33161**
**Telephone: Area Code 305-757-2312**

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GP045 0913

## ACOUSTICAL ABSORBTION

1" TO SOLID BACKING GIVES AN NRC OF .75



¾" TO METAL LATH GIVES AN NRC OF .85

## SPRAYED MINERAL FIBER

Spray Dar

FOR:
FIREPROOFING
THERMAL INSULATION
ACOUSTICAL ABSORBTION
CONDENSATION CONTROL

### DIRECT TO STEEL FIREPPOOFING

RATINGS

BEAMS - ½" 3 HR.. ¾" 4 HR.
COLUMNS - ¾" 2 HR.. 1" 3 HR.. 1½" 4 HR.
STEEL DECKS - MOST DECKS ½" 3 HR.





## THERMAL INSULATION

K FACTOR OF THE STANDARD MATERIAL .26



K FACTOR OF THE HARD MATERIAL .41