



INTERNATIONAL FIRE-SHIELD, INC.

P.O. Box 7305
Auburn, NY 13022

(315) 255-1006
FAX: (315) 255-2765

Dear Customer:

READ ALL INSTRUCTIONS BEFORE USE !

Thank you for your order of Inspecta-Shield™ flame retardant for the treatment of fabric, lumber, evergreens and other items are either absorbent or will allow Inspecta-Shield to adhere to fibers.

Please follow all directions contained within this manual and listed on the product label.

APPLICATION RATES FOR FABRICS

| | <u>Oz weight per square yard</u> | <u>Coverage rate per gallon</u> |
|-----------------------------|----------------------------------|---------------------------------|
| Cotton Twill | 7.9 | 600 square feet |
| Cotton Flannel | 3.6 | 600 square feet |
| Cotton (Drapery/upholstery) | 4.7 | 600 square feet |
| Rayon | 2.8 | 500 square feet |
| Silk | 2.0 | 500 square feet |
| Polyester (satin) | 2.5 | 600 square feet |
| Polyester (knit) | 7.0 | 600 square feet |
| Olefin (polypropylene) | 4.5 | 500 square feet |
| Acetate | 3.7 | 500 square feet |
| Velours - 16 oz. | 25 | 400 - 500 square feet |
| Blends of above | | 400 - 600 square feet |

APPLICATION RATES FOR INTERIOR LUMBER 300 sq.ft. per gallon - all surface areas treated *

| | | | |
|------------------------------|-------------|------------------|-------------------|
| H.P.M.A. T-6839 | White Pine | Class A | 300 sq.ft./gallon |
| U.L. 79P1 | Douglas Fir | Class B | 300 sq.ft./gallon |
| Plywood, Particle Board, OSB | ----- | ***T.B.D./gallon | |

* If material to be treated can only be treated on one side, the application rate is 150 sq.ft. on exposed side.

Dimensional lumber: 150 sq.ft. per gallon; all sides have to be sprayed. Use the following procedure and chart to determine linear square footage.

| | | A | | | | | | | |
|--|-----|-------|-------|-------|-------|-----|-----|-----|-------|
| | | 1/2" | 1" | 2" | 4" | 6" | 8" | 10" | 12" |
| - Locate lumber dimension A and B on graph | 1" | 4 | 3 | 2 | 1 1/4 | 3/4 | 3/4 | 3/4 | 1/3 |
| - Locate no. at cross point - C | 2" | 2 1/3 | 2 | 1 1/2 | 1 | 3/4 | 2/3 | 1/2 | 1/3 |
| - L - linear feet | 4" | 1 1/3 | 1 1/4 | 1 | 3/4 | 2/3 | --- | --- | --- |
| - sq = square feet | B | 6" | --- | 3/4 | 3/4 | 2/3 | 1/3 | --- | 3 |
| | | 8" | --- | 3/4 | 2/3 | --- | --- | --- | 5 1/3 |
| Formula: L ÷ C = sq.ft. | 10" | --- | 3/4 | 1/2 | --- | --- | --- | --- | --- |
| i.e.: a 4x6 pine 100 linear feet long = 166 sq.ft. | 12" | --- | 1/3 | 1/3 | --- | --- | --- | --- | --- |

Textile application rates are based on independent test results when product was applied by either spray, immersion or pad method. Textile weights ranged from 1.7 oz. to 25 oz. per square yard.

Lumber application rates are based on independent test results when product was applied by either spray, roller, immersion or pressure impregnation processes.

****Application rates may vary with the weight, density and the code** for which treated materials are intended to comply with. (Some items may need to be treated more than once to ensure proper coverage rates).

International Fire-Shield, Inc. technical staff is available for assisting you with any additional information on **specific application rates and processes**.

APPLICATION RATES FOR MISCELLANEOUS ITEMS

| | |
|--------------|-------------------------------------|
| Bales of Hay | 75 sq.ft./gallon |
| Paper | 800 sq.ft./gallon (vegetable-based) |

All specifications and suggestions appearing on our labels and in our literature concerning the use of our products are based upon tests and data believed to be reliable. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by International Fire-Shield, Inc. as to the effects of such use or the results to be obtained. Not recommended for exterior use.

FLAMMABLE MATERIAL CHECK-LIST

1. (A) Areas of Assembly – Those areas where a gathering of 50 or more people may congregate; i.e., auditoriums, cafeterias, gymnasiums.

- ❖ Stage Draperies
- ❖ Window Curtains
- ❖ Stage Props
- ❖ Carpeting
- ❖ Upholstered Furniture

(B) Decorative Materials – Materials of a decorative purpose.

- ❖ School banners
- ❖ Posters
- ❖ Artwork
- ❖ Bulletin Boards
- ❖ Murals
- ❖ Wall coverings

2. Areas of Egress (Exit):

- ❖ Window Curtains
- ❖ Carpeting
- ❖ Wall coverings
- ❖ Decorative Materials

3. Office Areas:

- ❖ Window Curtains
- ❖ Carpeting
- ❖ Wall coverings
- ❖ Decorative Materials
- ❖ Upholstered Furniture
- ❖ Room Dividers

4. Classrooms:

- ❖ Window Curtains
- ❖ Carpeting
- ❖ Wall coverings
- ❖ Decorative Materials
- ❖ Upholstered Furniture
- ❖ Room Dividers

INSPECTA-SHIELD® APPLICATION Spray Method

1. Materials must be absorbent in order for Inspecta Shield® to be effective (test material with a drop of water.)

2. Shake Inspecta Shield® well, transfer to a clean sprayer. Test spray pattern on a paper towel. Test material for color fastness.

a. *Spray should be light enough to cover material without excessive dripping (material should be wet to the touch.)*

b. *It may be necessary to apply two coats to achieve total coverage.*

3. Operation of Sprayer

a. *Fill Sprayer one inch below neck.*

b. *Make sure that yellow switch on wand is in the vertical OFF position.*

c. *Twist pump handle to release.*

d. *Pull up handle and pump 20 times to create satisfactory pressure.*

e. *Twist pump handle back into lock position.*

f. *Use two-hand start-up spraying procedure.*

1. *Place left hand on wand.*

2. *Place right hand on handle and trigger.*

3. *Make sure trigger and wand are in vertical position at all times with tip up.*

g. *Place trigger in ON position (pulling down with thumb.)*

h. *Turn off by pushing yellow trigger straight up with thumb (make sure trigger is not in lock position.)*

4. Spray Product

a. *Hold Sprayer 10" to 12" from work. Move sprayer back and forth, overlapping each stroke until complete.*

5. Wipe Up and Over-Spray and Drips.

a. *Inspecta Shield should not be left in contact with metal or glass. Wash any excess off with a damp cloth.*

6. Return any unused Inspecta Shield® to proper container.

7. Wash sprayer with water, rinse, and flush clean water through sprayer. Wipe dry and store properly.

8. Return unused Inspecta Shield® to storage and log date and application. Store between 35°F and 100°F.

ATTENTION – Art Teachers and Maintenance Personnel:

A. Children's Artwork may be applied from the back of the paper.

B. Paper products may be flame-proofed before using by either spraying or dipping.

NOTE: If Inspecta Shield® is over applied and stiffness results, a simple brushing will bring your material back to its original texture.

TO: All Inspecta Shield® Users

FROM: International Fire-Shield, Inc.

RE: Recommendations for most effective usage of Inspecta Shield®

NOTE: Any soiled fabrics or furnishings should be cleaned before application.

Your fabrics and/or furnishings have been treated with Inspecta Shield®, a non-toxic, odorless flame retardant chemical manufactured by International Fire-Shield, Inc. for fire protection and prevention.

To maintain the appearance of the area treated, the following procedure is recommended in dealing with possible overspray or over application.

1. Examine Inspecta Shield® treated items after drying.

a) **PROBLEM:** Overspray – white crystal-like particles on non-cellulosic materials (metal will rust if not removed.)

REMEDY: Simply wipe affected area with a damp cloth.

b. **PROBLEM:** Over application-resulting in stiffness of treated areas.

REMEDY: Brush and/or use agitation bar; vacuum until said areas resume original texture and color.

2. **Durability:** Inspecta Shield® will not wear off under normal fabric use conditions. Treated synthetic and cellulosic textiles have been found to withstand three dry-cleanings under the guidelines established by I.F.I. # T-87-649

3. Testing after cleaning.

Remove small piece of treated material. Hold a match for five seconds to the bottom of vertically held material. Inspecta Shield® will retard or slow down the flame on recommended items, but will not prevent charring. Check for combustion. If combustion occurs, procedure must be repeated to insure protection.

4. Reapplication.

We recommend reapplication after water washings or three dry cleanings (see Durability) to assure the maintenance of the flameproof ratings.

**FOR FURTHER CONSULTATION,
PLEASE CONTACT THE
PROFESSIONALS AT
INTERNATIONAL FIRE-SHIELD, INC.**



INTERNATIONAL FIRE-SHIELD, INC.

For All Your Fire Retardant Needs
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(315) 255-1006
(315) 255-2044
(315) 255-2763

APPLICATION FOR CERTIFICATE OF FIRE-RESISTANCE

Date of Treatment

Enclose \$ 25.00 and sample with each application

Please note: All information must be properly completed, a **treated sample enclosed** for the Certificate of Fire-Resistance to be issued or the application will be returned and an **additional \$ 25.00 fee** will be due **upon resubmitting**.

PERSON OR COMPANY TO RECEIVE CERTIFICATION: _____

ADDRESS: _____

TOTAL SQUARE FEET TREATED: _____

TYPE AND DESCRIPTION OF MATERIALS TREATED (color, composition, etc.): _____

LOCATION OF TREATED: (i.e. building, room#, etc.): _____
(if additional room is needed attach separate sheet).

AMOUNT OF INSPETCA-SHIELD USED (in gallons: 1, ½, ¼, etc.): _____

NAME OF APPLICATING PERSON OR FIRM: _____

ADDRESS: _____

TELEPHONE OF APPLICATING PERSON OR FIRM: _____

HAVE ITEMS BEEN FIELD-TESTED BY APPLICATOR? YES or NO (circle)

DOES TEXTILE PASS FIELD-TEST (see below)? YES or NO (circle)

DOES LUMBER PASS FIELD-TEST (see below)? YES or NO (circle)

Does your local fire marshal or insurance adjustor have specific test requirements? (Circle those that apply):

ASTM-E-84 (Steiner Tunnel)

NFPA-701

Others: _____

Textile Field Test for Inspecta-Shield: Hold bottom of a 4 inch sample into a 1 ½" flame (butane lighter) for a period of twelve seconds. No combustion of material may be noted.

Lumber Field Test for Inspecta-Shield: Hold propane or butane torch to a 4" area of treated lumber for a period of 15 seconds. Upon removal, the tested area must self-extinguish within 5 seconds.

PRINT NAME OF APPLICATOR ABOVE

SIGNATURE OF APPLICATOR ABOVE

WHERE SHOULD ORIGINAL CERTIFICATE OF FIRE-RESISTANCE BE MAILED: _____

Photocopy this for your future applications for Certificates of Fire-Resistance.

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(800)513-5134
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AFFIDAVIT OF FLAME RETARDANT TREATMENT
USING INSPECTA-SHIELD™

I HEREBY CERTIFY THE FOLLOWING INFORMATION:

NAME OF APPLICATING PERSON OR FIRM _____

ADDRESS _____

TELEPHONE # _____ FAX # _____

ADDRESS OF ITEM(S) TREATED

ITEM(S) TREATED

TOTAL SQ. FOOTAGE OF TREATED AREA

TOTAL GALLONS USED _____

The above listed materials have **not been submitted** to the manufacturer for flammability testing due to circumstances beyond the control of the applicator. Product has been applied at coverage rates to these items which are similar to items that have been previously treated and tested for compliance through independent testing laboratories.

DATE _____

Name (print)

Signature

Firm

Photocopy this form for your future use for Flame proofing Affidavits.