

PRODUCT DATA SHEET

PRODUCT NAME

PRO-tektus – Flame & Fire Retardant



MANUFACTURER

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PRODUCT IDENTIFICATION

PRO-tektus – Flame & Fire Retardant is a fire retarding agent specially formulated to effectively and safely protect most absorbent materials like fabric, foam, and wood. It retards fires by stopping dangerous flames from spreading. **PRO-tektus – Flame & Fire Retardant** also inhibits the development of hydrocarbon smoke.

FEATURES

- Helps Prevent Spread of Dangerous Flames.
- Inhibits Toxic Smoke Development.
- Cut down Mold Growth & Termites.
- Preserves wood.
- Easy to apply.
- Safe to Store.
- Non Toxic.
- Compatible to Wood, Fabrics, Paper & absorbent materials.

APPLICATION

PRO-tektus – Flame & Fire Retardant is used to treat materials and surfaces such as:

- Uniforms.
- Clothing.
- Wood.
- Pre-construction materials.
- Furnishings.
- Carpets.
- Packing materials.
- Motorhome interiors.
- Holiday decorations, and more...
- 50/50 mixed with water based paints and sealers (no-gloss paints and sealers only).

On materials exposed to outdoor elements, a water-based sealer is required for best results. As stated before, it is important to test for compatibility prior to full application.

RE-APPLICATION

It is recommended to re-apply **PRO-tektus – Flame & Fire Retardant** to fabrics that have been washed or rinsed. For wood and other absorbent materials, it is recommended to re-apply **PRO-tektus – Flame & Fire Retardant**.

PS

- **DO NOT** Use **PRO-tektus – Flame & Fire Retardant** on water-proofed material.
- Always check with authorities to ensure **PRO-tektus – Flame & Fire Retardant** will meet the standards of your application.

COVERAGE

QUANTITY	APPROX. COVERAGE	
Quart Sprayer	Up to 100 Sq Ft.	Up to 9.30 m ²
1 Gallon	Up to 500 Sq Ft.	Up to 46.45 m ²
5 Gallon Pail	Up to 2300 Sq Ft.	Up to 213.68 m ²
55 Gallon Drum	Up to 22,000 Sq Ft.	Up to 2043.87 m ²

Approx. coverage varies by material thickness and density.
For best results, it is recommended to treat all sides of material.

DIRECTIONS

Evenly distribute **PRO-tektus – Flame & Fire Retardant** on the item or surface being treated, let dry, and repeat as needed. In all applications, allow **PRO-tektus – Flame & Fire Retardant** to completely penetrate the item or surface, air-dry for 24hrs completely before re-applying.

When using **PRO-tektus – Flame & Fire Retardant** to fire-retard clothing, carpeting and other fabrics, it is recommended to re-apply it after washing, as some of the product's effectiveness will be diminished after washing.

On materials exposed to outdoor elements, a water-based sealer is required for best results (test sealer on small section of treated material first).

If spraying onto a vertical surface where drain off is possible, multiple applications may be necessary.

When mixing **PRO-tektus – Flame & Fire Retardant** with water-based paint or sealer, mix equal parts of **PRO-tektus – Flame & Fire Retardant** and desired solution. When mixing 50/50 with **PRO-tektus – Flame & Fire Retardant**, an extra coat will be required for best results.

PHYSICAL AND CHEMICAL CHARACTERISTICS

Appearance	Clear Colour.
Specific gravity @ 15°C	1.08 – 1.10 Kg / Litre
Odour	Mild Fresh Scent. No D-limonene.
pH	7.0 ± 0.5
Flash point	Insignificant.
Water Solubility	100%
Shelf Life	2 years in closed containers between 7°C & 38°C (45°F – 100°F)
Boiling Point	100 °C (212 °F)
Vapour Pressure (mm Hg)	.Same as water
Dilution Strength	Do not dilute.
Residue	Leaves little to no residues.
Flammability	Non- Flammable.

The information and data given is to the best of our knowledge reliable, but is given without obligation.

STABILITY AND REACTIVITY

Stability	Stable.
Incompatibility	None.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide.
Hazardous Polymerization	Not occur.

ECOLOGICAL INFORMATION

Biodegradability	100% in 21 days under normal conditions.
Disposal	May be disposed through municipal systems.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection	Not required.
Ventilation	No special ventilation is required.
Protective Gloves	Wear if there is prolonged skin contact.
Eye Protection	Wear if needed to prevent reasonable probability of eye contact.
Hygienic Practices	Do not ingest, do not splash into eyes, do not inhale for prolonged periods.

STANDARDS & NORMS

PRO-tektus – Flame & Fire Retardant conforms to:
NFPA 255, 701, & ASTM E84 Class "A" Rated

QUALITY STANDARDS

PRO-tektus – Flame & Fire Retardant conforms to ISO 9001.

EQUIPMENT

Apply with brush, roller or low-pressure spray (<50 psi). Fan tips are recommended for sprayers.

STORAGE AND HANDLING

- ✓ Keep from freezing.
- ✓ Store in a cool, dry place.
- ✓ Always seal container after dispensing.
- ✓ Do not alter or mix with other chemicals.
- ✓ Published shelf life assumes upright storage of factory-sealed containers in a dry place.
- ✓ Maintain temperature of 45 - 100°F (7°C - 38°C).
- ✓ Do not double stack pallets.
- ✓ Dispose of unused product and container in accordance with local, state and federal regulations.
- ✓ When handling bulk concentrate, eye protection, gloves, and impervious clothing should be worn when there is a danger of splashing, prolonged exposure to vapor, or prolonged skin contact, as with all chemicals.
- ✓ It is neutral. It will remove oil from the skin and will irritate the eyes if sprayed directly into them.
- ✓ Do not ingest, splash into eyes, or inhale for long periods.

Other Precautions: Although components have low hazard levels, the product will remove oils from the skin like common soap. Avoid prolonged skin contact.

ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures	Rinse affected area with water. Will not harm the environment.
Waste Disposal Method	Dispose as non-hazardous waste in accordance with local regulations.

FIRST AID MEASURES

Eyes	Immediately flush eyes with water for 15 minutes. Seek medical aid if irritate persists.
Skin	Flush affected area and rinse with water.
Inhalation	Negligible. Remove to fresh air.
Ingestion	Drink Water. Obtain medical attention if necessary.

FIRE-FIGHTING MEASURES

Flash Point	Not applicable.
Flammable Limits	Non - Flammable.
LEL	Not Applicable
UEL	Not Applicable
Extinguishing Media	Not Applicable
Special Fire Fighting Procedures	None.

FIRE-FIGHTING MEASURES

TEST SPECIMEN	PRO-tektus – Flame & Fire Retardant	RATING
Flame Spread Index	15	0 - 25
Smoke Development Value	25	0 - 450

COMPOSITION / INFORMATION ON INGREDIENTS

None of the components of this product are hazardous.

RETARDING POWER

After treatment of **PRO-tektus – Flame & Fire Retardant** on most absorbent surfaces, there is zero flame spread. Flame Rating Classification: 0-25

TECHNICAL SERVICE

The Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

Contact:

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PRODUCT WARNING

Société Raymond Barakeh SAL has no control over the use or storage of this product and therefore does not accept any liability in this regard. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use or the inability to use the product. Before using, user shall determine the suitability of the product for their intended use, and user assumes all risk and liability whatsoever in connection therewith. If product is tamper evident, do not use and contact an authorized dealer immediately. Any verbal advice given should not be regarded as authoritative information. This information is subject to change without notice, therefore all applicators should ensure they have current information. This product is intended for the use only of skilled tradesmen and where applicable, statutory licensed tradesmen experienced and trained in the use of this product. This product is warranted to be of uniform quality within the manufacturer's tolerance. This manufacturer has no control over the use or misuse of this product, therefore no warranty rests or implied, is or can be made either as to the effects of such use. The manufacturer's obligations shall be limited to replacing product proving to be defective.

APPLICATIONS

- Wood
- Fabrics
- Paper
- Any absorbent materials.

DIRECTIONS FOR USE
Shake well to disperse concentrated product.

STORAGE
Store in warm dry conditions.
Temperature 7°C - 38°C
Protect from frost.

APPLICABLE STANDARDS
NFPA 255, T01 & ASTM E84 CLASS "A"

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PRO-tektus

SHAKE BEFORE USE

CLASS "A"
FLAME & FIRE RETARDANT

- Helps prevent spread of dangerous flames.
- Keep Out of Reach Of Children.
- In Case of Contact with Eyes, Rinse immediately with plenty of Clean Water & Seek Medical Advice.
- Inhibits toxic smoke development.
- If Swallowed Seek Medical Advice, Show the Container or Label.
- Non-Toxic, Eco-Friendly.
- NO PBDE's or Toxins.
- Discourages Mold Growth & Termites.