Modern Chemical Industries, S.A.E.
Paints · Coatings | Corniche Embaba, Al Warraq, Giza, Egypt | Established 1978

SOLID FIRE TEX

Water-Based Fire-Retardant Treatment for Textiles and Cellulosic Materials — Solid Special-Products Line

PRODUCT DESCRIPTION

Solid Fire Tex is a highly effective, economical, and environmentally friendly fire-retardant treatment for fabrics of most types. It can be used as a fire retardant and impregnating agent on practically all water-absorbent materials. It may be applied by spraying, padding, or immersion, or incorporated directly into a product. The method of application depends on the type of material and the structure of the fiber to be protected.

KEY FEATURES

- Aqueous solution of inorganic salts
- Colorless, with a slight ammonia odor in solution; odorless when dry
- Chemically neutral to slightly alkaline (pH 7.0 - 8.0)
- Does not substantially affect the appearance or feel of the fabric when properly applied
- Fabric remains soft and pliable
- Supplied ready to use in liquid form

RECOMMENDED USES

- Hospitality venues, furniture, carpets, and entertainment spaces
- Trade shows, exhibitions, and fairs
- Senior citizen homes, nursing homes, hospitals, and clinics
- Military, mining, retail, libraries, theaters, and museums
- Textiles: lab coats, coveralls, velour, drapery, curtains, carpets, tents, work clothing, wall coverings, cotton and
- Paper and cellulosics: trade show displays, straw and hay, decorations, acoustic tiles, wood chips, sawdust,

SURFACE PREPARATION

Check the fabric for color-fastness before starting the treatment. Do not dilute or mix with other products. Distribute the solution evenly across the entire surface, ensuring that it does not flow or drip to the extremes wherever possible.

TECHNICAL & PHYSICAL PROPERTIES

Property	Value
Appearance / Odor	Colorless free-flowing liquid; slight ammonia odor
Specific Gravity	1.04 g/cm³
Volatiles by Volume	80%
Solids Content by Weight	20%
pH	7.0 - 8.0
Boiling Point	Not available
Shelf Life	18 months in the original sealed container, away from direct sunlight and heat

APPLICATION GUIDELINES

Parameter	Recommendation
Application Method	Spraying, coating, or immersion at any point in the manufacturing
Spray Equipment	Hand-held or backpack pressurized spray container with an
Thinning	Do not dilute or mix with other products
Theoretical Spreading Rate	Depends on the absorbency, inherent flammability, and overall
Equipment Cleaning	Flush the sprayer with clean warm water after daily use

DRYING TIME

Stage	Value
Dry Time	Dependent upon fabric type and thickness

Dry on a horizontal drying rack at moderate temperature (between 21°C and 54°C) for optimal results. Tumble dry fabric in a warm dryer (maximum temperature should not exceed 54°C). Iron fabric using a warm iron (maximum temperature 93°C), testing a small area first to ensure the color is not affected.

RECOMMENDED PAINT SYSTEM

- Fabric cleaning and care: detergents, water, or shampooing will remove Solid Fire Tex; re-treatment after
- Hay or straw bales: approximately 1 liter per bale is required for good penetration; spray on with an atomizer
- Cardboard: treat corrugated cardboard with a fine atomized spray on both sides; do not soak in any one spot for
- Paper and decorative materials: thorough saturation with a spray will work; hang paper during spraying for best

TEST RESULTS

Tested under CAN/CGSB 4.2 No. 27.1-M87 Textile Test Methods — Flame Resistance, Vertical Burning Test. Results show a high degree of flame resistance on 100% polyester, 100% cotton, and 65/35 polyester-cotton blend fabrics, each of medium weight (drapery / tablecloth).

HAZARD CLASS

Solid Fire Tex is not subject to WHMIS Regulations, nor is it regulated by Transportation of Dangerous Goods.

LIMITATIONS

The water-soluble properties of Solid Fire Tex limit certain applications. Addition of a sealant is required to protect the fire retardant from leaching if exposed to water.

STORAGE

Store in a cool, dry location away from direct sunlight. Keep from freezing.

HEALTH & SAFETY

- Observe all warning and precautionary labels displayed on the container.
- Ensure application takes place in a well-ventilated area.
- Avoid skin and eye contact. Wear overalls, gloves, and goggles where appropriate.
- In case of eye contact, flush immediately with plenty of clean running water and seek prompt medical attention.
- Keep out of reach of children.
- Do not empty into drains or watercourses. Dispose of waste in accordance with local regulations.
- A Safety Data Sheet is available for this product and should be consulted for full handling and disposal information.

The information in this data sheet is given to the best of our knowledge, based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.