



ISO 9001 Certified Company  
"TIME TESTED PRODUCTS"  
SINCE 1972

# Zahabiya

## FlameX FRX-10/65

Intumescent Flame Retardant Coating

Zahabiya FlameX FRX-10/65 is a high performance, intumescent flame retardant coating which can be applied on various kinds of substrates including combustible cellulosic materials such as wood, MDF sheets, ply-wood sheets etc. The product can also be applied with satisfaction on other construction materials e.g. concrete or plastered surfaces, steel reinforcements, gypsum boards etc. to increase their fire resistance properties. On exposure to direct flame, this intumescent coating **swells many times of its original thickness**, creating a flame retardant & fire resistive barrier between the fire and the substrate, not allowing the flame to reach the substrate and propagate flame, thus providing extended time for fire extinguishing. This makes it an excellent product to be used around openings where the duct passes through a wall, ceiling or MDF Partitions. On perfect drying (curing) the layer formed behaves as:

- Excellent flame retardant properties.
- Swells when contact with fire.
- IBC Class A & NFPA Class A Flame Retardant.
- Conforms to (UL 94) VTM-0 Category.
- Practically "0" flame spread UL-94.
- Fungi, mildew & other micro-organisms resistant.
- Hard sandable coating for better finish.
- Ideal for high risk rigid cellulosic substrates.

**COLOUR:**

**ODOUR:**

**VISCOSITY:**

**SOLID CONTENTS:**

**DENSITY:**

**DRYING:**

**SERVICE TEMPERATURE:**

**FLAMMABILITY:**

**Wet Flammability**

**Flash point**

**Fire Resistance**

**FR Class**

**Flame Spread**

**Smoke Developed**

**COVERAGE:**

**APPLICATION:**

**SHELF LIFE:**

White. Other colours may be available for bulk orders.

Slight Resinous smell in liquid state. The product is odourless upon curing.

36 ± 2 sec - Zahn Cup No. 5 (ASTM D4212).

Around 73% (W/W) solids (ASTM D1644).

1.25 kg/litre on average (20°C) (ASTM D1475).

Dries at room temperature. Set to touch within 1 hr and dries within 4 hours (ASTM D1640).

Usable between 10°C to 60°C.

Fire retardant when dried.

Non-flammable (ASTM D93).

Not Applicable.

Tested to resist upto 2 hours of continuous flame when applied on MDF sheet panel at 0.5mm thickness (in-house testing).

Classified as VTM-0 (UL 94); IBC Class A & NFPA Class A Flame Retardant (ASTM E84).

UL 94HB: 0 (coating didn't catch fire when tested).

ASTM E84: 20.

65 (ASTM E84).

Coverage depends upon the thickness of coating applied. For 0.5mm thick coating (wet), the product covers around 10-15 ft<sup>2</sup> on a smooth, non-absorbent surface. *Recommended thickness is around 1mm but should be atleast 0.5mm.*

FRX-10/65 can be applied by brush, roller or trowel application. Before application, the surface should be dry, clean, non-greasy and free from any loose particles. Please note that the product is water based and air drying. For multi coat application, a minimum inter-coat period of 4 hours should be maintained for proper drying of the pervious coat.

**Note:**

1) Any flame retardancy test should be performed at least after 48 hours of final coat.

2) It is advisable to conduct compatibility tests on the surfaces to be applied on and number of coats needed for the perfection of jobs.

3) For longer service life, esp. in exterior applications or areas with high humidity, it is advisable to do a top coat of a weather protective coating such as Zahabiya Water Shield (FR Grade) FRC-10/60.

Keep in the original containers airtight in well ventilated place at around 25°C. Use within 9 months from manufacturing date.



**IMPORTANT NOTICE:**

The Information & Data contained herein are correct to the best of our knowledge, tests and experience. These are presented in good faith to the users. The recommendations and suggestions mentioned are made without guarantees or representations as to the results. The Consumer should satisfy himself as to the suitability of the product for the intended purpose and use. WE ASSUME NO LIABILITY for damages of any kind and the user accepts the product 'as is' and without any other warranties, expressed or implied. Our warranty is limited to the replacement of so proved defective Zahabiya's original sealed product only, provided used within shelf life as supplied originally.



**WINNER "BRANDS OF THE YEAR AWARD" FROM 2009 TO 2012**

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