

## DESCRIPTION

**SafeCoat®TBI** is a single-component latex intumescent fire retardant coating ideally suited for exposed interior SPF (spray polyurethane foam). It limits thermal penetration by expanding to many times its original dry film thickness when exposed to heat. This expanded material forms a char, which insulates the substrate against heat and reduces available oxygen to the surface.

## PROPERTIES

<b>Coating Type</b>	Latex	
<b>Finish</b>	Flat	
<b>Color</b>	White, Light Grey, Black	
<b>Specific Gravity</b>	11.9 lbs/USG or 1.43 g/mL	
<b>Solids by Weight</b>	67%	
<b>Solids by Volume</b>	64%	
<b>Coating VOC</b>	<1 g/L	
<b>Dry Time (Touch):</b>	1-2 hours (varies with mil thickness, temperature and humidity)	
<b>Coverage Rate</b>	<b><u>NFPA 286</u></b>	<b><u>CAN/ULC S145</u></b>
	<b>15min</b>	<b>10min</b>
	20 mil WFT 401 ft <sup>2</sup> /pail	17 mil WFT 472 ft <sup>2</sup> /pail
<b>Flash Point</b>	No Flash	
<b>Storage Limits</b>	10-35 °C (50-95 °F) Keep from freezing	
<b>Shelf Life</b>	12 months	
<b>Packaging</b>	Available in five-gallon pails Special order: 55-gallon drums	

**SafeCoat®TBI** is intended for interior use only.

## APPLICATION INSTRUCTIONS



(Airless)

### Surface Preparation:

All surface preparation should be carried out in accordance with good painting practices. Ensure surface is clean and dry before application.

### Application:

For optimal finish, apply **SafeCoat® TBI** using airless spray equipment with a minimum tip size of 21 thou. Remove both the gun and pump filters prior to spraying.

**SafeCoat® TBI** is a heavier-body paint, requiring mechanical shear mixing to reduce viscosity prior to spraying. Use reliable and consistent pumping equipment to achieve optimal results (minimum recommended machine size Graco 695). Apply each coat uniformly to entire surface to obtain smoothest finish.

Surface and ambient temperature must be maintained at greater than 10 °C (50 °F) during application and must remain so for at least 48 hours following the application.

**Quality Assurance:** An optional QA report form is available at quantumchemical.com

**Cleanup:** All application tools can be cleaned with water. If product has dried on, use hot soapy water to soften and remove it.

**Precautions:** **SafeCoat® TBI** is not WHMIS-regulated, nor is it subject to the *Transportation of Dangerous Goods Act and Regulations*. See SDS for detailed precautions. **PROTECT FROM FREEZING** as freezing will damage the product.



**SafeCoat® TBI Thermal Barrier Test as per the Test Standards below performed by Intertek:**

TEST METHOD	TEST DATE	TEST RESULT
<b>NFPA 286: 2024</b> , Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.	<b>10/10/25</b>	<b>15-Minute Classification</b>
<b>CAN/ULC S145: 2018</b> , Standard Method of Test for the Evaluation of Protective Coverings for Foamed Plastic Insulation – Full-Scale Room Test.	<b>06/29/23</b>	<b>10-Minute Classification</b>

**National Building Code of Canada:** SafeCoat®TBI prevents flashover for 10 minutes for Combustible Construction when tested to the **CAN/ULC S-145** Standard. This testing has been shown to exceed the protection requirements of **CAN/ULC S-124** -tested materials and meets the intent of the NBC section 3.1.5.12 for the protection of foamed plastics.

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