

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 the 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

Coating Type	Latex	
Finish	Flat Finish	
Color	White, Light Grey, Black	
Specific Gravity	11.9 lbs/US Gallon or 1.43 g/mL	
Solids by Weight	67% Solids by Volume 64%	
Coating VOC	<1 g/L	
DryTime (Touch):	1-2 hours (varies with mil thickness, temperature and humidity)	
Coverage Rate	<u>NFPA 286</u>	<u>CAN/ULC S145</u>
	15min 20 mil WFT 401ft/pail	10min 17 mil WFT 472ft/pail
Flash Point	No Flash	
Storage Limits	Keep from freezing (33°-100°F; 1-38°C. Colder product will be thicker; warmer will be thinner.)	
Shelf Life	12 months	
Packaging	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 machine size Graco 495). Apply each coat uniformly to entire surface to obtain smoothest finish.

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

Quality Control: An optional QC report form is available at quantumchemical.com

Clean Up: 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
NFPA 286: 2024 , Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.	10/10/25	15-Minute Classification
CAN/ULC S145: 2018 , Standard Methods of Fire Tests for the Evaluation of Protective Coverings for Foamed Plastic Insulation – Full-Scale Room Test Report Number: G105348565SAT-003 RO	06/29/23	10-Minute Classification

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 intend of the NBC section 3.1.5.12 for the protection of foamed plastics.