



# SEAMASTER FIREGUARD (WATER-BASED) INTUMESCENT FIRE RETARDANT COATING 6009W

**7.13(i)**  
Rev 06  
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- Description** Seamaster FireGuard (Water-Based) Intumescent Fire Retardant Coating 6009W is a ideal way to combine an attractive architectural appearance with fire safety. It is water based, low VOC, no toxic, low odour, special formulation for environmentally friendly, suitable for enclosed area using, easy application, no sagging, no cracking, good film thickness build up property. While Seamaster Intumescent Coating 6009W is exposed to fire will form a highly efficient foam based on micro-porous carbon. The foam may be up to 100 times thicker than the original coating and has a strong heat insulation effect.
- Recommended Use** Seamaster FireGuard (Water-Based) Intumescent Fire Retardant Coating 6009W is used for protect steel structures like airport terminal building, shopping centers, sport center, power plant, theatres and office buildings. It also can be used for soft board, timber and decorative wooden panels, etc.
- Surface Preparation** Surfaces to be coated must be free from oil, grease or other materials or conditions likely to impair adhesion. Must be shot/ grit blasted to minimum of SA 2.5 on the Swedish Standard. Suitable primer requested according different surface.
- Certification** It complies with requirements under:
- Recognised as a Halal product by LPPOM (MUI) Indonesia
  - Approval Certificate for Product Category Firestop complying with BS476: Part 21: 1987 (valid period Jun-23 till Jun-25), issued by Malaysia authorities Fire and Rescue Department (Jabatan Bomba dan Penyelamat Malaysia)

Physical Test Performance	Characteristic	Tested Performance
	Adhesion (Cross Cut Test)	0
	Wet Scrub Resistance	≥1200 cycles
	VOC content	<5g/L
	Water Resistance	No blistering, no peeling, no cracking, no major difference in colour and gloss after immersion in water for 480h
	Alkali Resistance	No blistering, no peeling, no cracking, no major difference in colour and gloss after immersion in saturated solution of Ca(OH) <sub>2</sub> for 240h

- Fire Test Performance**
1. Fire prevention and fighting research application center under university of fire prevention and fighting.  
Test report number: 129/BBKD/TT2
  2. ISO 834-1:1999 + A1:2012 Fire resistance tests – Elements of Building Construction – part 1: general requirements  
Test report number: SGS No: AJFS 1808008108FF-01
  3. BS 476: Part 6: 1989+A1:2009 Fire test on building materials and structures. Part 6: Method of Test for Fire Propagation for Products.
  4. BS 476: Part 7: 1997 Fire test on building materials and structures. Part 7: Surface Spread of Flame Test.
  5. BS 476: Part 20 & Part 21: 1987 Methods for determination of the fire resistance of load bearing elements of construction: Clause 5 – Determination of the fire resistance of beam with loadbearing elements of construction.



## Physical Properties

Vehicle Type	Waterborne polymer
Pigmentation	Heat resistant pigments and fire retardant materials
Solvent	Water
Density (kg/litre)	1.30 ± 0.05
Volume Solid	68 ± 2%
Drying Time at (27 ± 2°C & RH : 80 ± 5%)	Touch Dry ≤ 30 minutes Hard Dry Overnight (1mm dry film thickness)
Recoating Interval	> 4 hours (may be extended if in highly humid atmospheric condition or temperature lower than normal room temperature)
Shelf life	6 months
Packing	5 Kgs, 20 Kgs
Application Temperature	5°C to 40°C

## Application Method

Mortar gun spray & brush.	
Paint Preparation	Thinning or dilution with water not needed.
Mixing Ratio	Single pack

## Application Condition

The surface must be completely clean and dry before apply 6009W. After application leave the coating to dry under room temperature under good air circulation condition. Do not force dry the coating to prevent microcracks (which will affect coating fire intumescent performance) from forming.

## Recommended Coating System and Thickness

Product Description		DFT	Theoretical Coverage
Seamaster appropriate primer		20 µm	13 m <sup>2</sup> /lit
Seamaster FireGuard (Water-Based) Intumescent Fire Retardant Coatings 6009W	30 min	0.5 mm	1.00 m <sup>2</sup> /kg
	60 min	1.0 mm	0.50 m <sup>2</sup> /kg
	90 min	1.5 mm	0.33 m <sup>2</sup> /kg
	120 min	2.0 mm	0.25 m <sup>2</sup> /kg
Seamaster decorative water based top coat		30 µm	11m <sup>2</sup> /lit

## Health and Safety

This product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Safety Data Sheet (SDS) are followed. SDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

## Product Liability

The Seller warrants the product to be free from manufacturing defects in material and workmanship. The Seller's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited at the Seller's option, to either replacement of products not conforming to this warranty or credit to the Buyer's account in the invoiced amount of the non-conforming products.

The Seller makes no other warranties concerning this product. No other warranties, either express or implied, or satisfactory, and as warranties or merchantability or fitness for a particular purpose, shall apply. In no event shall the Seller be liable for consequential or incidental damages. Any recommendations or suggestion relating to the use of the products made by the Seller, whether in its technical limitation, or in response to specific inquiry, or otherwise, is based on data believed to be reliable, however, the products and information are intended for Buyers having requisite skill and know-how in the industry, and therefore it is for the Buyer to satisfy itself of the suitability of the products for its own particular use, and it shall be deemed that the Buyer has done so, at its sole discretion and risk. Variation in environment changes in procedures of use or extrapolation of data may cause unsatisfactory results.