

# FIREMASK

KCC Fire-Resistant Coating



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2015~2023  
Korean Standard  
Quality Excellence Index

**KCC** Paint

# Fire-resistant Coating

## FIREMASK AQ-1000, AQ-2000



Water-based intumescent coatings  
(1 hour, 2 hours)

### 1. Feature

- Water-based thin film intumescent fire-resistant coating
- Meeting the Korea Standard for 1 and 2 hours fire protection
- Highly fast-drying compared to solvent-based
- Minimizing the construction period
- Reducing film defects during transportation and installation
- Beautiful appearance and high durability
- Eco-friendly & minimized VOCs

### 2. Recommended Use

Modular buildings, multi-use facilities and industrial complexes factories (shops) that require fire protection with reduced construction period.

### 3. Certifications and Test Reports

- Certification : Fire-resistant construction, Eco-Friendly Interior Architecture Material
- Test report : VOCs content, Gas Toxicity, Adhesion
- KICT laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025 : 2017.
- Certified by Fire and Rescue Department of Malaysia "BOMBA".

### Water-based intumescent paint (1 hour)

Order	Product	Thickness	Method	Color	Spreading Rate
Primer (choose 1)	EP170	50µm	B, S	Red, Gray	10.2 m²/L 0.1 L/m²
	SENSEMEL ANTI-CORROSIIVE PRIMER (KS)				14.5 m²/L 0.07 L/m²
	GALVANY IZ180N				12.2 m²/L 0.08 L/m²
Primer sealer	EP170 (When selecting Primer GALVANY IZ180N)	40µm	S	Red	10.2 m²/L 0.1 L/m²
Mid coat	FIREMASK AQ-1000	650µm	B,S	White	1.0 m²/L 1.0 L/m²
Top coat (choose 1)	SUNITHANE TOP COAT	50µm	B, S	All Colors	8.97 m²/L 0.11 L/m²
	Quick-drying TOP COAT				9.6 m²/L 0.1 L/m²
<b>when applying outside</b>					
Top coat sealer	Korepox EH4158HM	100µm	B,S	Silver	7.5 m²/L 0.13 L/m²
Top coat	Korethane Top coat UT6581	50µm	B,S	All Colors	11.6 m²/L 0.086 L/m²

B → Brush, R → Roller, S → Spray

### Water-based intumescent paint (2 hours)

Order	Product	Thickness	Method	Color	Spreading Rate
Primer (choose 1)	EP170	50µm	B, S	Red, Gray	10.2 m²/L 0.1 L/m²
	SENSEMEL ANTI-CORROSIIVE PRIMER (KS)				14.5 m²/L 0.07 L/m²
	GALVANY IZ180N				12.2 m²/L 0.08 L/m²
Primer sealer	EP170 (When selecting Primer GALVANY IZ180N)	40µm	S	Red	10.2 m²/L 0.1 L/m²
Mid coat	FIREMASK AQ-2000	3,000µm (Beam)	B,S	White	0.22 m²/L 4.49 L/m²
		2,650µm (Column)			0.26 m²/L 3.9 L/m²
Top coat (choose 1)	SUNITHANE TOP COAT	50µm	B, S	All Colors	8.97 m²/L 0.11 L/m²
					Quick-drying TOP COAT
<b>when applying outside</b>					
Top coat sealer	Korepox EH4158HM	100µm	B,S	Silver	7.5 m²/L 0.13 L/m²
Top coat	Korethane Top coat UT6581	50µm	B,S	All Colors	11.6 m²/L 0.086 L/m²

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## FIREMASK SQ476



BS476 CERTIFIRE certified intumescent coatings

### 1. Feature

- Solvent-based thin film intumescent fire-resistant coating
- Meeting BS476 CERTIFIRE (the British Standards Institution)
- Fire-resistant performance : up to 120 min for columns & 150 min for beams
- Fast curing compared to SFRM
- Beautiful appearance and high durability

※ SFRM : Sprayed Fire-Resistive Material

### 2. Recommended Use

Factories and general buildings, hazardous substances storages and treatment facilities etc.

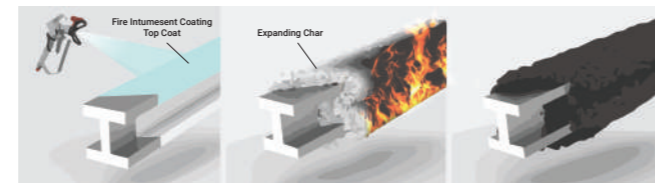
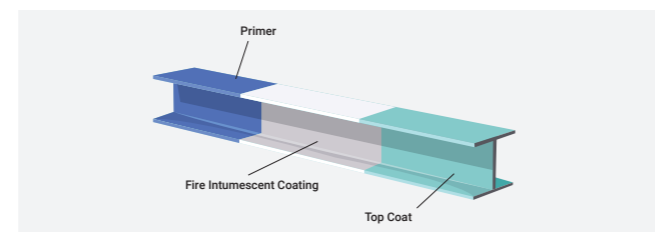
### 3. Certifications and Test Reports

- BS476 : Part 21 : 1987 CERTIFIRE
- Certified by Fire and Rescue Department of Malaysia "BOMBA".

### BS476 CERTIFIRE certified intumescent paint

Order	Product	Thickness	Method	Color	Spreading Rate
Primer	EP170	50µm	B, S	Red, Gray	10.2 m²/L 0.1 L/m²
Mid coat	FIREMASK SQ476	Depends on fire rating	S	Gray	Depends on fire rating
					Depends on fire rating
Top coat	Korethan Top coat UT6581	50µm	B, S	Red, Gray	12 m²/L 0.08 L/m²
<b>when applying outside</b>					
Top coat sealer	Korepox EH4158HM	100µm	B,S	Silver	7.5 m²/L 0.13 L/m²
Top coat	Korethane Top coat UT6581	50µm	B,S	All Colors	11.6 m²/L 0.086 L/m²

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# Fire-resistant Coating

## FIREMASK SQ2700



Solvent-based intumescent coatings  
(2 hours)

### 1. Feature

- Solvent-based thin film intumescent fire-resistant coating
- Meeting the Korea Standard for 2 hours fire protection
- Economic advantage with the lowest film thickness in Korea
- Fast curing compared to SFRM
- Beautiful appearance and high durability

※ SFRM : Sprayed Fire-Resistive Material

### 2. Recommended Use

Factories and general buildings, hazardous substances storages and treatment facilities.

### 3. Certifications and Test Reports

- Certification : Fire-resistant construction
- Test report : Gas toxicity, Adhesion

### Solvent-based intumescent paint (1 hour)

Order	Product	Thickness	Method	Color	Spreading Rate
Primer (choose 1)	EP170	50µm	B, S	Red, Gray	10.2 m²/L 0.1 L/m²
	SENSEMEL ANTI-CORROSIIVE PRIMER (KS)	50µm			14.5 m²/L 0.07 L/m²
	GALVANY IZ180N	60µm			12.2 m²/L 0.08 L/m²
Primer sealer	EP170 (When selecting Primer GALVANY IZ180N)	40µm	S	Red	10.2 m²/L 0.1 L/m²
Mid coat	FIREMASK SQ1003	650µm	B,S	White	1.0 m²/L 1.0 L/m²
Top coat (choose 1)	Quick-drying TOP COAT	50µm	B, S	All Colors	9.6 m²/L 0.1 L/m²
	Korethan Top coat UT6581				11.6 m²/L 0.086 L/m²
	SENSETHANE				17 m²/L 0.06 L/m²
	SENSEMEL JOHAB				13.6 m²/L 0.08 L/m²
<b>when applying outside</b>					
Top coat sealer (choose 1)	Korepox EH4158HM	100µm	B,S	Green, Gray	7.5 m²/L 0.13 L/m²
	Korepox EH2580	100µm			6.0 m²/L 0.17 L/m²
	Korepox EH6270	100µm			6.3 m²/L 0.16 L/m²
Top coat (choose 1)	Korethane Top coat UT6581	50µm	B,S	All Colors	11.6 m²/L 0.086 L/m²
	SENSETHANE				17 m²/L 0.06 L/m²

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### Solvent-based intumescent paint (2 hours)

Order	Product	Thickness	Method	Color	Spreading Rate
Primer (choose 1)	EP170	50µm	B, S	Red, Gray	10.2 m²/L 0.1 L/m²
	SENSEMEL ANTI-CORROSIIVE PRIMER (KS)				14.5 m²/L 0.07 L/m²
	GALVANY IZ180N				12.2 m²/L 0.08 L/m²
Primer sealer	EP170 (When selecting Primer GALVANY IZ180N)	40µm	S	Red	10.2 m²/L 0.1 L/m²
Mid coat	FIREMASK SQ2700	2,950µm (Beam)	B,S	White	0.23 m²/L 4.34 L/m²
		2,550µm (Column)			0.27 m²/L 3.75 L/m²
Top coat (choose 1)	Quick-drying TOP COAT	50µm	B, S	All Colors	9.6 m²/L 0.1 L/m²
	Korethan Top coat UT6581				11.6 m²/L 0.086 L/m²
	SENSETHANE				17 m²/L 0.06 L/m²
	SENSEMEL JOHAB				13.6 m²/L 0.08 L/m²
<b>when applying outside</b>					
Top coat sealer (choose 1)	Korepox EH4158HM	100µm	B,S	Green, Gray	7.5 m²/L 0.13 L/m²
	Korepox EH2580	100µm			6.0 m²/L 0.17 L/m²
	Korepox EH6270	100µm			6.3 m²/L 0.16 L/m²
Top coat (choose 1)	Korethane Top coat UT6581	50µm	B,S	All Colors	11.6 m²/L 0.086 L/m²
	SENSETHANE				17 m²/L 0.06 L/m²

B → Brush, R → Roller, S → Spray



## FIREMASK 3004



Epoxy intumescent coatings (3 hours)

### 1. Feature

- Two-component, epoxy intumescent fire-resistant coating
- Meeting the Korea Standard for 3 hours fire protection
- Fast curing compared to solvent-based & SFRM
- Shortening the construction period
- Beautiful appearance and high durability
- Solvent-free & no environmental contamination

※ SFRM : Sprayed Fire-Resistive Material

### 2. Recommended Use

Buildings, airports, petrochemical plants and other high-risk environments where fire safety is importance

### 3. Certifications and Test Reports

- Certification : Fire-resistant construction, Eco-friendly Interior Architecture Material
- Test report : Gas toxicity, Adhesion

### Epoxy intumescent paint (3 hours)

Order	Product	Thickness	Method	Color	Spreading Rate
Primer	EP170	50µm	B, S	Red, Gray	10.2 m²/L 0.1 L/m²
Mid coat	FIREMASK 3004	11.10mm (Beam)	S	Gray	0.09 m²/L 11.1 L/m²
		11.15mm (Column)			0.09 m²/L 11.15 L/m²
MESH	NEXWEB	Reinforcing Mesh (designated Type : Nexweb) shall be applied over the flange tips and webs at approximately mid-depth of the total thickness of FIREMASK 3004.			
Top coat sealer (choose 1)	Korepox Top coat UT6581	50µm	B,S	All Colors	11 m²/L 0.09 L/m²
	SENSETHANE				13.6 m²/L 0.08 L/m²
	SENSETHANE QUICK DRY				

B → Brush, R → Roller, S → Spray

## FIREMASK 3500



UL1709 certified intumescent coatings

### 1. Feature

- Two-component, epoxy intumescent fire-resistant coating
- Meeting UL1709 standard (Underwriters Laboratories)
- Fire-resistant performance : 60min & 90min & 120min & 150min
- Excellent durability from hydrocarbon fires & combined corrosions
- Beautiful appearance
- Solvent-free & no environmental contamination

### 2. Recommended Use

Onshore oil, gas, petrochemical and power generation Steel structures from the effects of hydrocarbon pool fire

### 3. Certifications and Test Reports

- Certification : UL1709, Fire-resistant construction, Eco-Friendly Interior Architecture Material
- Test report : Gas toxicity, Adhesion

### UL1709 certified intumescent paint

Order	Product	Thickness	Method	Color	Spreading Rate
Primer	EP170	50µm	B, S	Red, Gray	10.2 m²/L 0.1 L/m²
Mid coat	FIREMASK 3500	60mins : 4,850µm	S	Gray	10.2 m²/L 4.85 L/m²
		90mins : 7,850µm			0.13 m²/L 7.85 L/m²
		120mins : 10,750µm			0.09 m²/L 10.75 L/m²
		150mins : 13,750µm			0.07 m²/L 13.75 L/m²
MESH	NEXWEB	Reinforcing Mesh (designated Type : Nexweb) shall be applied over the flange tips and webs at approximately mid-depth of the total thickness of FIREMASK 3004.			
Top coat	Korethane Top coat UT6581 (K)	50µm	B,S	All Colors	11 m²/L 0.09 L/m²

B → Brush, R → Roller, S → Spray