

Certificate of Product Approval

Certificate Number: 1109a (1)

Issue: 11

INTERNATIONAL PAINT LIMITED

Stoneygate Lane
Felling
Gateshead
Tyne & Wear
NE10 0JY

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirements of the standard(s) as detailed below:

Products

Intumescent thin film coating
Interchar 1190

Standards

SD198 (Appendix B15)/BS 476: Part 21
Specific requirements relating to approval of fire protection for structural steel (Intumescent thin film coating)

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.



Signed for BRE Global Ltd.

Chris White

Certification Scheme Manager

18 August 2020

Date of Issue

29 February 2012

Date of First Issue



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BRE Global Ltd, Garston, Watford, WD25 9XX
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Product Name					LPCB Ref. No.
Interchar 1190					1111a/01 1307a/01 1372a/01
Steel Section	Steel Section Factor Range (Hp/A)	DFT Dry Film Thickness Range (mm)	Critical Temperature Range (°C)	Fire Resistance Period (mins)	Appendix No.
I-and H- section beams, 3 sided exposure	70 - 320	0.770 - 4.366	350, 400, 450, 500, 550, 600, 620, 650, 700 & 750	15, 30, 45, 60, 75, 90, 105 & 120	1
I-and H- section columns, 4 sided exposure	50 - 365	0.608 – 7.630	350, 400, 450, 500, 550, 600, 650, 700 & 750	15, 30, 45, 60, 75, 90, 105 & 120	2
Rectangular and circular hollow section columns, 4 sided exposure	50 - 225	1.211 – 8.652	350, 400, 450, 500, 520, 550, 600, 650, 700 & 750	15, 30, 45, 60, 75, 90, 105 & 120	3

Notes:

1. Please refer to the relevant appendix number referenced in the table above to view the relationship between DFT dry film thickness, Critical Temperature and Fire Resistance Period.
2. LPCB Ref. 1111a/01, 1307a/01 & 1372a/01 – Interchar 1190 Intumescent dry film thickness excludes the primer and top coat (where applicable) thickness. Interchar 1190 is airless spray applied in multiple coats until the desired thickness is achieved.
3. Results from analysis of I or H -sections are directly applicable to angles, channels and T- sections for the same section factor, whether used as individual elements or as bracing.
4. The results of the analysis for I and H-section columns can be applied to I- and H- section beams exposed on all four sides up to the maximum dry film thickness of 4.366 mm.

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5. The approved coating system build-ups are shown in the table below with compatible primer and topcoat families and indicating the minimum and maximum DFT ranges for the primer and topcoats. Please refer to manufacturer for appropriate methods of application.

Primer	Primer dry film thickness in microns (min/max)	Intumescent	Topcoat	Topcoat dry film thickness in microns (min/max)
Two component epoxy primer	50 / 75	Interchar 1190	NO TOPCOAT	
Short/medium oil alkyd primer	50 / 100	Interchar 1190	NO TOPCOAT	
Two component epoxy primer	50 / 75	Interchar 1190	Two pack acrylic polyurethane finish	50 / 75
Two component epoxy primer	50 / 75	Interchar 1190	Single pack acrylic primer/finish	50 / 100
Two component epoxy primer	50 / 75	Interchar 1190	Single pack modified acrylic finish	40 / 50
Zinc rich epoxy primer (first coat) Followed by Two component epoxy primer (second coat)	40/40 50 / 75	Interchar 1190	Two pack acrylic polyurethane finish	50 / 75
Zinc rich epoxy primer (first coat) Followed by Two component epoxy primer (second coat)	40/40 50 / 75	Interchar 1190	Single pack acrylic primer/finish	50 / 100
Short/medium oil alkyd primer	50 / 100	Interchar 1190	Single pack acrylic primer/finish	50 / 100
Short/medium oil alkyd primer	50 / 100	Interchar 1190	Single pack modified acrylic finish	40 / 50
Short/medium oil alkyd primer	50 / 100	Interchar 1190	Two pack acrylic polyurethane finish	50 / 75
Single pack acrylic primer/finish	50 / 100	Interchar 1190	Single pack modified acrylic finish	40 / 50
Two component epoxy primer (on galvanised steel)	50 / 75	Interchar 1190	Two pack acrylic polyurethane finish	50 / 75

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Approved Manufacturers

The following Companies manufacture the product listed on this certificate

These Companies are audited by the LPCB to ensure the product certification requirements are met.

International Paint limited (**LPCB Ref. 1111**)
Holmedalen 3
424 22 Angered
Sweden

AkzoNobel Saudi Arabia Limited (**LPCB Ref. 1307**)
(International Paint)
Second Industrial City
Abquiq Road
Makkah Street
PO Box 37, Dammam 31411
Kingdom of Saudi Arabia

ICI Dulux Pty Ltd, (**LPCB Ref. 1372**)
Marine & Protective Coatings
1 Paint Place
Dickens Road, Box 565
Umbongitwini 4120
Durban
South Africa

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The logo for BRE (Building Research Establishment), consisting of the lowercase letters 'bre' in a bold, sans-serif font.