

# Firebreak 305 Intumescent Coating

<b>DESCRIPTION</b>	<b>A water borne intumescent coating for the fire protection of interior hollow section structural steelwork</b>														
<b>PRODUCT FEATURES AND RECOMMENDED USES</b>	<ul style="list-style-type: none"> <li>▪ Provides 30, 60 and 90 minutes fire resistance to structural steel</li> <li>▪ Tested in accordance with BS 476: Part 21: 1987 by Warrington Fire Research and Building Research Establishment</li> <li>▪ Highly competitive loadings for most steel section sizes, giving reduced application costs</li> <li>▪ Easy application properties</li> <li>▪ Minimal VOC's – EPA Compliant</li> <li>▪ Topseals are not required in C1 interior environments. When using topseals please ensure to check compatibility with Neutron Fire Technologies Ltd before application</li> <li>▪ Recommended for on-site application. Off-site applications must be topcoated before being taken outside and carefully handled (See 'application notes')</li> <li>▪ Recommended for interior environments classified as C1 or C2 under the definitions in ISO 12944-2: 1998</li> </ul>														
<b>VOLUME SOLIDS</b>	68 ± 2%														
<b>FILM THICKNESS</b>	WET MICRONS	370 - 5300	DRY MICRONS 250 - 3600												
<b>THEORETICAL COVERAGE</b>	1.05m <sup>2</sup> /litre @ 650 microns dry														
<b>APPLICATION</b>	Airless spray, brush, roller @650 microns dft and RH 70%														
		10°C	20°C	25°C											
	DUST FREE	12 hours	4 hours	30 minutes											
	HARD DRY	48 hours	24 hours	20 hours											
	OVERCOATING	MIN 48 hours	24 hours	20 hours											
		MAX See below*	See below*	See below*											
<b>COLOURS</b>	Off white														
<b>FINISH</b>	Matt														
<b>POT LIFE AT 23°C</b>	6 months in closed containers														
<b>PRODUCT WEIGHT</b>	1.27Kg/litre														
<b>PRODUCT CONDITIONS</b>	Store in dry, cool conditions and protect from frost														
<b>THINNERS</b>	Water														
<b>PRODUCT NOTES</b>	<p>Drying and overcoating times will vary with film thickness, temperature, relative humidity and ventilation. Do not apply below 5°C, temperature above 10°C preferred. @650 microns dft (and RH 70%):</p> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th></th> <th style="text-align: center;">10°C</th> <th style="text-align: center;">20°C</th> <th style="text-align: center;">25°C</th> </tr> </thead> <tbody> <tr> <td>Dust free:</td> <td style="text-align: center;">12 hours</td> <td style="text-align: center;">4 hours</td> <td style="text-align: center;">3 hours</td> </tr> <tr> <td>Min. overcoating</td> <td style="text-align: center;">48 hours</td> <td style="text-align: center;">24 hours</td> <td style="text-align: center;">20 hours</td> </tr> </tbody> </table> <p>*Overcoating Only overcoat with self or approved topseal – consult Neutron Fire Technologies Ltd for advice. Maximum overcoating time is indefinite providing the surface is clean and the coating is sound. Coated surfaces must be kept in controlled, dry conditions until topsealed or degradation may occur.</p>				10°C	20°C	25°C	Dust free:	12 hours	4 hours	3 hours	Min. overcoating	48 hours	24 hours	20 hours
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Firebreak 305  
Data Sheet

**SURFACE  
PREPARATION**

Degrease where necessary to SSPC-SP1 solvent cleaning to remove weld flux and general contamination prior to blasting. All sharp edges should be ground and weld splatter removed. Blast clean to Swedish Standard SIS 05 5900 Sa 2.5 or British Standard 7079 equivalent. Maximum profile 75 microns

Apply compatible anti-corrosion primer in accordance with the manufacturer's written instructions to recommended DFT.

Consult relevant primer Product Data Sheets for further detail. All surfaces should be clean, dry and free from all grease, oil and general contamination before coating.

**HEALTH AND SAFETY  
INFORMATION**

Refer to Health and Safety data sheet.  
At all times observe precautionary notices on containers.  
VOC figures are printed on Health and Safety data.

METHOD	AIRLESS SPRAY	ROLLER	BRUSH	CONVENTIONAL SPRAY	AUTOMATIC SPRAY
OUTPUT FLUID PRESSURE TIP SIZE	Min 3000 psi. 21-23 thou	Yes	Yes	No	No

**APPLICATION NOTES**

Mix the paint thoroughly before use.

Brush/roller application will typically give up to 500 microns dft for multi-coat application, but up to 1mm can be achieved. Highest standard of decorative finish is only likely to be achieved with careful airless spray application. Airless spray application will give up to 550 microns dft in a single coat dependant on configuration. Avoid exceeding maximum stated film thickness.

Off-site applications must be allowed sufficient hardening time before moving. Coated sections should be packed and handled so as to minimise damage to coating and prevent ponding by water and should be stored and transported under cover. If possible, handling cleats should be attached to the steelwork to minimise lifting damage. Topseal must be applied before leaving the shop. On site, all damage should be repaired to original specification.

Only apply in conditions of good ventilation which should be maintained during drying. Do not apply when rain, mist, sleet or snow are imminent. Do not apply or allow to dry below 5°C; temperatures above 10°C are preferred. During application and drying time of the paint coating, the surface should be dry and the relative humidity should not exceed 90%; the RH should be maintained as low as possible. The steel temperature should remain at least 3°C above dew point

**FLASH POINT**

Not Applicable

**EQUIPMENT CLEANER**

Water

Since the product is applied under circumstances beyond our control, Neutron Fire Technologies Ltd can accept no direct or consequential liability whether in contract or in tort, for the interpretations of such recommendations and reserves the right to modify the recommendations as necessary.



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