

# PRODUCT DATA SHEET

## Phoenix 167

<b>DESCRIPTION</b>	A water borne intumescent coating for the fire protection of structural steelwork.			
<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 and 'environmentally friendly'.</li> <li>■ Topseals are not required in C1 interior environments under the definitions in ISO 12944-2: 1998.</li> <li>■ Can be used externally with all Phoenix Topseals or other compatible topseals. Consult Phoenix before use to confirm compatibility.</li> <li>■ Recommended for on-site application. Off-site applications must be topcoated before being taken outside and carefully handled (see 'Application Notes')</li> </ul>			
<b>VOLUME SOLIDS</b>	68 ± 2%			
<b>FILM THICKNESS</b>	<b>WET MICRONS</b> 370 - 5300	<b>DRY MICRONS</b> 250-3600		
<b>THEORETICAL COVERAGE</b>	1.05 m <sup>2</sup> /litre @ 650 microns dry			
<b>APPLICATION</b>	Airless spray, Brush, Roller			
<b>DRYING TIMES</b>	<b>@ 650 microns dft and RH 70%</b>	<b>10°C</b>	<b>20°C</b>	<b>25°C</b>
	<b>DUST FREE</b>	12hours	4 hour	30 minutes
	<b>HARD DRY</b>	48 hours	24hours	20 hours
	<b>OVERCOATING</b>	<b>MIN</b>	48 hours	24 hours
<b>MAX</b>		See below*	See below*	See below*
<b>COLOURS</b>	Off white.			
<b>FINISH</b>	Matt			
<b>POT LIFE AT 23°C</b>	Not applicable			
<b>PRODUCT WEIGHT</b>	1.27 kg/litre			
<b>STORAGE CONDITIONS</b>	Store in dry, cool conditions and protect from frost			
<b>MIXING RATIO</b>	Not applicable			
<b>THINNERS</b>	Water			

<b>PRODUCT NOTES</b>	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.			
	<b>@ 650 microns dft (and RH 70%):</b>			
		<b>10°C</b>	<b>20°C</b>	<b>25°C</b>
	Dust Free:	12 hours	4 hours	30 mins
Min. overcoating:	48 hours	24 hours	20 hours	
	<b>* Overcoating:</b>			
	Only overcoat with self or approved topseal - consult Phoenix 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. Care should be taken if applying solvent based topseals to ensure the basecoat is completely dry before application.			

# Phoenix 167

## Steel

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 spatter removed. Blast clean to Swedish Standard SIS 05 5900 Sa 2.5 or British Standard 7079 equivalent. Maximum profile 75 microns.

### SURFACE PREPARATION

Apply compatible anti-corrosive primer in accordance with manufacturers written instructions to recommended DFT – Please consult Phoenix to confirm compatibility before application.

Consult relevant primer Product Data Sheets for further details. 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 sheets.  
At all times observe precautionary notices on containers.  
VOC figures are printed on Health and Safety data.

METHOD	AIRLESS SPRAY	AUTOMATIC SPRAY	CONVENTIONAL SPRAY	BRUSH	ROLLER
OUTPUT FLUID PRESSURE	Min 3000 psi.	No	No	Yes	Yes
TIP SIZE	21 - 25 thou				

### 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 with poor cosmetic finish. Highest standard of decorative finish is only likely to be achieved with careful airless spray application. Airless spray application will give up to 1600 microns WFT in a single coat dependant on configuration. Avoid exceeding maximum stated film thicknesses.

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 – consult Phoenix for advice.

Please consult Phoenix to confirm topséal compatibility before application.

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%, and as with all water borne coatings the RH should be maintained as low as possible. The steel temperature should remain at least 3°C above the dew point.

### FLASH POINT

Not applicable

### EQUIPMENT CLEANER

Water

The information in this data sheet is correct at the time of printing.  
Consult Phoenix before applying as to the suitability for use otherwise we cannot be held responsible for conditions beyond our control.