



TECHNICAL DATA SHEET

AMBER INTUMESCENT PAINT

PRODUCT DESCRIPTION	A special resin based single component Intumescent paint for fire protection (FP), of structural steel work up to 120 minutes.
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RECOMMENDED USES	Suitable to be applied on steel structures internal or external. Provides fire protection up to 120 minutes.
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TECHNICAL DATA

COLOUR, DRY FILM	White
FINISH, DRY FILM	Smooth / Matt
VOLUME SOLIDS (ASTM D2697)	63 ± 2%
SOLID BY WEIGHT	76 ± 2%
SPECIFIC GRAVITY	1.33 ± 0.05
THEORETICAL SPREADING	3.15 M ² /Ltr – 1.80 M ² /Ltr
RECOMMENDED DFT (DRY FILM)	200 – 350 Microns/Coat
RECOMMENDED WFT (WET FILM)	318 – 555 Microns/Coat
NOTE	An experienced applicator can apply up to 700 – 1000 microns per coat, depending on section factor and time of FP, but over coating time will be extended significantly.

DRYING TIME

Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time).	
TOUCH DRY	4 hours (at 30°C & 60% RH) at 350 microns
	8 hours (at 30°C & 60% RH) at 700 microns
DRY TO RECOAT	24 hours minimum, with itself
HARD DRY/FULL CURE	7 days at 350 microns
	12 days at 700 microns



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OVER COATING INTERVAL:

Average DFT, of Intumescent Paint System	200 – 400 microns	200 – 400 microns	750 – 1,000 microns	>1,100 microns
Minimum Over coating Time	24 hours	48 hours	60 hours	72 hours
Maximum desired over coating time	4 days	4 days	4 days	4 days

ADVANTAGES

AMBER INTUMESCENT PAINT SYSTEM	Single component system, easy to apply and effective for metal structures. Suitable at various film thicknesses for desired period of fire protection.
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APPLICATION INSTRUCTION

SURFACE PREPARATION	Steel preparation before priming should be done in accordance with the recommended primer's product data sheet. (To be Clean the steel structure with abrasive blast clean to Sa 2 ½ with minimum surface profile 30 microns for DFT up to 500 microns, and minimum surface profile 50 microns for DFT more than 700 microns. Abrasive used for blasting should be dry and free from dirt, oil grease or contamination and have content of water soluble matter not exceeding 0.05%. Remove weld spatter and smooth weld seams and sharp edges. Clean the primed steel substrate film from oils, fats, grease, dirt etc. in accordance with SSPC-SP1 solvent cleaning. The steel substrate temperature should be between 10°C and 45°C and at least 3°C above the Dew Point, during application and curing periods. Relative humidity, during application and curing periods to be less than 85%).
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APPLICATION DATA

APPLICATION METHOD	Airless, Spray, Brush, roller
CLEANING/THINNING	Amber Intumescent Thinner
THINNER (VOLUME)	0-5% depending upon the required DFT and application condition
CONV. SPRAY REQUIREMENTS	Possible
AIRLESS SPRAY REQUIREMENTS	Pressure : 120 – 150 Bar (1700 – 2125 psi)
NOZZLE SIZE	0.015” - 0.018”
NOZZLE ANGLE	20° - 50°, depending on shape of steel structure
MIXING RATIO (BY VOLUME)	One Pack
POT LIFE @ 30°C (100 ml)	NA

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface. - Clean the surface of metal. - Sand blast the surface, if ferrous. - For non-ferrous surface, contact Tech. Dept./coating advisor of Amber Paint.	For ferrous surfaces:	
	Amber Guard Zinc Phosphate Epoxy Primer	1 coat
	Amber Intumescent Paint : Thickness as recommended by Technical service.	
	Amberthane Topcoat (Clear/Shade)	1 – 2 coats
SPECIFIC PROPERTIES AS INTUMESCENT PAINT	The dried film, reacts above 200°C in a fire test situation, resulting into swelling to many times the original thickness to produce an insulating foamed carbonaceous char that reduces the rate of temperature increase, of the steel and hence prolongs its load bearing capacity. Amber Intumescent Paint can be applied at different film thickness for achieving fire protection up to 2 hours.	

ADDITIONAL DATA

SHELF LIFE @ 30°C	12 months, in original sealed container, with proper storage conditions.
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HEALTH & SAFETY

SAFETY PRECAUTIONS	<p>As a general rule, avoid skin and eye contact by wearing overalls, glove, goggles, and mask etc. Spillage on skin should immediately be removed by thorough washing with water and soap or suitable cleaner. Eye should be flushed with fresh water. Avoid inhalation of vapours and paint mist by wearing suitable mask. In the event of ingestion and eye contact, seek medical attention immediately. Painting must be carried out in wellventilated area.</p> <p>This product contains flammable materials and should be kept away from the sparks and open flames, smoking in the area should not be permitted. Local safety regulations should be followed.</p>
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STORAGE & HANDLING

STORAGE	<p>Store the paint in proper storage conditions as per the local regulations. Keep the paint container in sealed condition under shed, away from direct sunlight and extreme temperatures. Do not stock paint material near to any ignition sources. Do not put back the half or unused material back in original container, containing the supplied paint, to avoid contamination. Handle with care. Stir well before use.</p>
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