



NATIONAL INTUMESCENT PAINT W
PROTECTIVE COATINGS

TECHNICAL DATA SHEET

NATIONAL INTUMESCENT PAINT W

PRODUCT DESCRIPTION	Quick drying one component intumescent, water-based coating for fire protection of walls and concrete surfaces.
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RECOMMENDED USES	It is used to provide protection on concrete structure work. Protection on concrete beams and columns up to 4 hours. Due to its fast drying properties and rapid recoatability is also suitable for application on concrete and cementitious surfaces and in fabrication shop.
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TECHNICAL DATA

COLOUR, DRY FILM	White
FINISH, DRY FILM	Smooth / Matt
VOLUME SOLIDS (ASTM D2697)	54 ± 2%
SOLIDS (BY WEIGHT)	66 ± 2%
SPECIFIC GRAVITY	1.35 ± 0.05
THEORETICAL SPREADING	2.70 M ² /Ltr. – 1.80 M ² /Ltr.
RECOMMENDED DFT (DRY FILM)	200 – 300 Microns/Coat
RECOMMENDED WFT (WET FILM)	370 – 555 Microns/Coat
NOTE	An experienced applicator can apply up to 680 microns per coat using Airless spray.

DRYING TIME

Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)	
TOUCH DRY	2 - 4 hours
DRY TO RECOAT	24 hours.
HARD DRY/FULL CURE	36 hours.

ADVANTAGES

NATIONAL INTUMESCENT PAINT SYSTEM	Single component system, quick drying and easy to apply and effective for concrete surfaces. Provides protection on concrete up to 4 hours.
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APPLICATION INSTRUCTION

SURFACE PREPARATION	The surface to be coated must be thoroughly cleaned. On new surfaces a good mechanical cleaning or washing is enough to remove dust, dirt and oil. The quantities and the thickness will depend on the required fire protection class and profile section factor.
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APPLICATION DATA

APPLICATION METHOD	Airless Spray, Brush, roller
CLEANING/THINNING	Water
THINNER (VOLUME)	Ready to use, when applied by spray equipment, otherwise and if necessary, use up to 10% thinning with water.
CONV. SPRAY REQUIREMENTS	Possible
AIRLESS SPRAY REQUIREMENTS	Pressure : 120 – 150 Bar (1700 – 2125 psi)
NOZZLE SIZE	0.018” – 0.021”
MIXING RATIO (BY VOLUME)	One Pack
POT LIFE @ 30°c (100 ml)	NA

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface.	National Acrylic Primer (W.B) : 1 coat
	National Intumescent Paint-W : Thickness depend on the required
	fire protection class. (Consult Technical Department).
	Can be coated with alkyd based coatings or water based acrylic coatings is highly recommended. The use of Nationalthane top coat in any shade is also recommended.

NATIONAL AND INTERNATIONAL TEST CERTIFICATES

1.	Test Certificate provided from Spanish laboratory LGAI Technologist Center S.A, based on the new European legislation UNE EN 1364-4:2002	Fire resistance up to 4 hours.
2.	Test Certificate, Directorate of Civil Defence, ABU DHABI, UAE	Fire resistance up to 4 hours.



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ADDITIONAL DATA

SHELF LIFE @ 30°C	6 months, in original sealed container, with proper storage conditions. Store in dry and cool place(5 – 35°C)
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HEALTH & SAFETY

SAFETY PRECAUTIONS	Generally, most of the water base paints are quite safe to handle with due precautions. As a general rule, avoid skin and eye contact by wearing overalls, gloves, 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 well-ventilated area. Local safety regulations to be followed.
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STORAGE & HANDLING

STORAGE	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.
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NOTE: We warranty only the quality of our product and this data sheet is based on results obtained from experience and tests. We reserve the right to change data without prior notice. For surface preparation, safety details refer specifier and safety data.

This data sheet supersedes all previous issued.
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