



NATIONAL FIRE RETARDANT VARNISH

PRODUCT DESCRIPTION	National Fire Retardant Varnish is an intumescent varnish design for the fire protection of wooden furniture and wooden constructions for fire resistance up to class B-1 according to German standard DIN 4102-1 or to class B/s1/d0 according to the new European standard EN-13501-1/2007. Wooden construction, protected with this varnish, will build up a foam char, when fire attacked, and wood becomes to non flammable material (not burnable)
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RECOMMENDED USES	Intumescent coating product for fire protection of wood and timber derivatives.
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TECHNICAL DATA

COLOUR, DRY FILM	Clear / Pigmented
FINISH, DRY FILM	Smooth / Semi gloss
SOLIDS BY VOLUME (ASTM D2697)	71 ± 2% (mixed)
SOLID BY WEIGHT	80 ± 2% (mixed)
SPECIFIC GRAVITY	1.25 ± 0.05
THEORETICAL SPREADING	2.7 M ² /LTR
RECOMMENDED DFT (DRY FILM)	260 Microns (130 microns/coat)
RECOMMENDED WFT (WET FILM)	366 Microns (183 microns/coat)

DRYING TIME

Drying time @ 30 °C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)	
TOUCH DRY	6 hours
DRY TO RECOAT	24 hours
HARD DRY	24 hours

ADVANTAGES

NATIONAL FIRE RETARDANT VARNISH	A special resin based coating, easy to apply, excellent water, weather and U.V. resistance. Dry film has excellent fire retardant properties.
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APPLICATION INSTRUCTION

SURFACE PREPARATION	<p>Before application, the surface should be sound, clean and free from oil, grease, loose particles, dust, etc. Application can be done by the recommended application methods.</p> <p>Wood preservation should be done before the application of this intumescent varnish, which must be later top coated with any polyurethane topcoat for its protection from any atmospheric pollution.</p>
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APPLICATION DATA

APPLICATION METHOD	Brush, Roller or Spray or Airless Spraying
CLEANING/THINNING	Water
THINNER (VOLUME)	Up to 10% (Depending on method of application)
CONV. SPRAY REQUIREMENTS	Atomizing pressure: 50 psi
AIRLESS SPRAY REQUIREMENTS	Pressure : 2200 psi
NOZZLE SIZE	0.018"
MIXING RATIO	Part A: Part B = 1:1 (by volume) Part A: Part B = 120:140 (by weight)

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface.	Clean the surface, remove loose particle and apply
	National Fire Retardant Varnish : 2 coats
	Nationalthane Topcoat (Clear/Shade) : 1 – 2 coats

NATIONAL/INTERNATIONAL TEST CERTIFICATES

Sr. No.	Test Description	Test Reference	Compliance
1	VOC	USEPA 24	Local Regulatory Requirements
2	Reaction to Fire	DIN EN 13501 – 1:2007 (Issued by MPA Braunschweig, Germany & Directorate of Civil Defence, Sharjah, UAE)	



**NATIONAL FIRE RETARDANT VARNISH
DECORATIVE COATINGS**

TECHNICAL DATA SHEET

ADDITIONAL DATA

SHELF LIFE @ 30°C	6 months, in original sealed container, with proper storage conditions (max.35°C).
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HEALTH & SAFETY

SAFETY PRECAUTIONS	Generally, most of the water based 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 keep 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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