



NATIONAL DUCT COATING
PROTECTIVE COATINGS

TECHNICAL DATA SHEET

NATIONAL DUCT COATING

PRODUCT DESCRIPTION	National Duct Coating is a single component, water dilutable acrylic emulsion based, specially designed material for air conditioning duct coating and roof system. It is highly durable, thick, flexible, water proofing and insulative coating. It has excellent adhesion and water resistance. It is non-flammable and has antifungal property. It contains anti bacterial and anti fungal additives.
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RECOMMENDED USES	National Duct Coating is recommended for the insulative protection to air conditioning duct and metal roofs. It can also be used for domes, wooden roofs etc. It can protect expanded polyurethane foam from deterioration by ultra violet light. It is advised that, the product should not be exposed to mechanical stress until fully dried. For metal surfaces use suitable primer prior to apply National Duct Coating.
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TECHNICAL DATA

COLOUR, DRY FILM	White
FINISH, DRY FILM	Smooth / Satin
VOLUME SOLIDS (ASTM D2697)	50 ± 2%
SPECIFIC GRAVITY	1.25 ± 0.05
THEORETICAL SPREADING RANGE	2.5 – 1.0 M ² /LTR
RECOMMENDED DFT RANGE (DRY FILM THICKNESS)	200 – 500 Microns/Coat
RECOMMENDED WFT RANGE (WET FILM THICKNESS)	400 – 1000 Microns/Coat
FLASH POINT	Water Base
FLEXIBILITY	Good

DRYING TIME

Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)	
TOUCH DRY	4 – 5 hours
DRY TO RECOAT / OVERCOAT	8 – 10 hours
HARD DRY	24 hours (minimum) – for maximum recoating time, refer to our Technical service division.



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ADVANTAGES

NATIONAL DUCT COATING SYSTEM	Single component acrylic emulsion based, insulative and protective coating, suitable for metal, cementitious, wooden, etc. surfaces, excellent adhesion and durability, anti fungal property, flexible and high build coating.
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APPLICATION INSTRUCTION

SURFACE PREPARATION	The surface should be sound, clean and free from oil, grease, loose particles etc. The old galvanized steel pipe / duct should be sand blasted to min. Sa2.5 and then primed suitably before application of the National Duct Coating.
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APPLICATION DATA

APPLICATION METHOD	Brush, Roller, Spray
CLEANING/THINNING	Water
THINNER (VOLUME)	Depending on type of application
CONV. SPRAY REQUIREMENTS	Atomizing pressure: 40 psi
AIRLESS SPRAY REQUIREMENTS	Pressure: 2200 psi
NOZZLE SIZE	0.018” – 0.020”
MIXING RATIO (BY VOLUME)	Not applicable
POT LIFE @ 30°C (100 ml)	Not applicable

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface. Can be applied on canvas cloth and lagging fabric on air conditioning ducts.	No. of coats x DFT (micron)
	National Duct Coating : 2 x 500
	For metal surfaces, use suitable anticorrosive primer prior to apply National Duct Coating.

ADDITIONAL DATA

SHELF LIFE @ 30°C	18 months, in original sealed container, with proper storage conditions.
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HEALTH & SAFETY

<p>SAFETY PRECAUTIONS</p>	<p>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 airmask 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 airmask. 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.</p>
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STORAGE & HANDLING

<p>STORAGE</p>	<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 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.</p>
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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.
Issued: 0608

