

NATIONAL SHIELD TOPCOAT

PRODUCT DESCRIPTION	National Shield Topcoat is a premium quality 100% pure acrylic water based paint. It is specially designed for the outstanding UV protection and exterior durability performances. It has excellent adhesion and alkali resistance. It protects concrete from carbonation (anti carbonation coating). It is highly washable and has very low dirt pick up. It contains anti fungal and anti bacterial additives.
RECOMMENDED USES	National Shield Topcoat is recommended for the protection and decoration of exterior surfaces like concrete, cement plaster, brickwork, gypsum board, wood, masonry work etc. It is used for the application on villa, shopping complexes, high rise buildings. It is also suitable for the maintenance works.

TECHNICAL DATA

FINISH, DRY FILM	Smooth, Silk	Smooth, Matt
COLOUR, DRY FILM	As per National shade card	As per National shade card
VOLUME SOLIDS (ASTM D2697)	36 ± 2%	31 ± 2%
SPECIFIC GRAVITY (For White & Pastel Shades)	1.22 ± 0.04	1.36 ± 0.04
THEORETICAL SPREADING	12.0 – 9.0 m ² /lit.	10.3 – 7.8 m ² /lit.
RECOMMENDED DFT (DRY FILM)	30 – 40 microns/coat	30 – 40 microns/coat
RECOMMENDED WFT (WET FILM)	83 – 111 microns/coat	97 – 129 microns/coat
FLASH POINT	Water based	Water based

DRYING TIME

Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time).	
TOUCH DRY	1 – 2 hrs.
HARD DRY	4 – 6 hrs.
DRY TO OVERCOAT	3 hrs.



ADVANTAGES

NATIONAL SHIELD TOPCOAT	100% pure acrylic, outstanding UV protection and exterior durability, excellent adhesion and alkali resistance, protects concrete from carbonation, highly washable and has very low dirt pick up.
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APPLICATION INSTRUCTION

SURFACE PREPARATION	Before application, the surface should be sound, clean and free from oil, grease, loose particles, dust, etc. Any defects on the substrate should be rectified before starting painting. Application can be done by the recommended application methods.
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APPLICATION DATA

APPLICATION METHODS	Spray: Airless spray or conventional spray. Roller: Possible. Brush: For corners and edges.
CLEANING/THINNING	Water
THINNER (VOLUME)	Maximum up to 20 – 30 % (depends on method of application)
CONVENTIONAL SPRAY	Possible
AIRLESS SPRAY REQUIREMENTS	Pressure: 2100 psi Nozzle: 0.021 – 0.027". Angle of spray: 65 ⁰ - 80 ⁰

SYSTEM

RECOMMENDED SYSTEM (To be applied on prepared surface)	1.National Acrylic Primer (W.B)	1 coat
	OR	
	1. National Shield Alkali Resistant Primer W.B	1 coat
	2.National Shield Exterior Filler W.B (if required)	1–2 coats
	3.National Shield Topcoat Silk/Matt	2 coats



NATIONAL SHIELD TOPCOAT
DECORATIVE COATINGS

TECHNICAL DATA SHEET

NATIONAL/INTERNATIONAL TEST CERTIFICATES

Sr. No.	Test Description	Test Reference	Compliance
1	Crack Bridging Ability	ASTM C 836 /C836M-18	
2	Reduction in Water Absorption	BS EN 1062-3:2008	
3	Water Vapour Transmission Rate	BS EN 1062-1	
4	Co2 Diffusion Coefficient	TP 950 / 05 / 13569	

ADDITIONAL DATA

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

SAFETY PRECAUTIONS	<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 mask etc.</p> <p>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.</p>
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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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