



**NATIONAL SHIELD EXTREME MATT**  
**DECORATIVE COATINGS**

**TECHNICAL DATA SHEET**

## **NATIONAL SHIELD EXTREME MATT**

### **PRODUCT DESCRIPTION**

National Shield Extreme Matt is an infrared (IR) heat reflective 100% pure acrylic exterior water based topcoat, to withstand the harsh tropical weather condition. It is formulated with excellent UV protected colours and allows the colours to stay true for a longer period of time. It reflects the heat-producing region of the infrared radiation ranges in sunlight, by its temperature reduction technology. It protects concrete from carbonation (anti carbonation coating) and remains protected from algae and fungus. It offers moisture barrier and vapour permeable properties with very low dirt pick up. It has low VOC and is highly washable. It is free from any harmful chemicals. It contains anti fungal and anti bacterial additives.

### **RECOMMENDED USES**

National Shield Extreme Matt is recommended for exterior application, suitable for the buildings to remain cooler during hot climates by reducing the surface temperature. It improves thermal comfort conditions of houses, industrial and residential buildings. It is the best option for those who believe in caring for the environment and durability of the building.

### **TECHNICAL DATA**

<b>COLOUR, DRY FILM</b>	As per National shade card
<b>FINISH, DRY FILM</b>	Smooth, Matt
<b>VOLUME SOLIDS (ASTM D2697)</b>	37 ± 2%
<b>SPECIFIC GRAVITY</b>	1.45 ± 0.04
<b>THEORETICAL SPREADING</b>	12.3 – 7.4 m <sup>2</sup> /lit.
<b>RECOMMENDED DFT (DRY FILM)</b>	30 – 50 microns/coat
<b>RECOMMENDED WFT (WET FILM)</b>	81 – 135 microns/coat
<b>FLASH POINT</b>	Water based

### **DRYING TIME**

Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time).

<b>TOUCH DRY</b>	30 mints.
<b>HARD DRY</b>	3 – 4 hrs.
<b>DRY TO OVERCOAT</b>	1 hr.(minimum)



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### **ADVANTAGES**

<b>NATIONAL SHIELD EXTREME MATT</b>	100% Pure acrylic, higher solar reflectivity, reduces surface temperature and cooling the interiors of building, reduces energy consumption, excellent UV protection, long lasting exterior colour performance, anti carbonation property, highly washable and durable, very low dirt pick up, moisture barrier and vapour permeable.
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### **APPLICATION INSTRUCTION**

<b>SURFACE PREPARATION</b>	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**

<b>APPLICATION METHODS</b>	Spray: Airless spray or conventional spray. Roller: Possible. Brush: For corners and edges.
<b>CLEANING/THINNING</b>	Water
<b>THINNER (VOLUME)</b>	Maximum up to 10-15% (depends on method of application)
<b>CNVENTIONAL SPRAY</b>	Possible
<b>AIRLESS SPRAY REQUIREMENTS</b>	Pressure: 2100 psi Nozzle: 0.021" – 0.027". Angle of spray: 65 <sup>0</sup> - 80 <sup>0</sup>

### **SYSTEM**

<b>RECOMMENDED SYSTEM</b> (To be applied on prepared surface)	1. National Acrylic Primer W.B / 1.National Shield Alkali Resistant Primer	1 coat
	2. National Shield Extreme Matt	2 coats

### **ADDITIONAL DATA**

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

<b>SAFETY PRECAUTIONS</b>	<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**

<b>STORAGE</b>	<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.  
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