

**NATIONAL PROTECT SEAL MATT**

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| <b>PRODUCT DESCRIPTION</b> | National Protect Seal Matt is a single component high build coating for interior/exterior applications with elastomeric acrylic polymer emulsion capable of bridging cracks. It provides a barrier coating against salts and atmospheric gases and protects re-inforced concrete structures. It has a highly durable, protective, breathable membrane which allows water vapour to escape from the substrate and avoid blisters on the surface. It contains anti bacterial and anti fungal additives. |
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| <b>RECOMMENDED USES</b> | National Protect Seal Matt is used for the protection of concrete structures against carbonation and chloride ion ingress. The product is suitable for concrete repairs, bridge and highway structures, industrial and commercial buildings, multi storey car parks, underpasses, as waterproofing on a variety of substrates etc. |
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**TECHNICAL DATA**

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| <b>COLOUR, DRY FILM</b>           | As per National shade card                 |
| <b>FINISH, DRY FILM</b>           | Smooth, Matt                               |
| <b>VOLUME SOLIDS (ASTM D2697)</b> | 53.0 ± 2%                                  |
| <b>SPECIFIC GRAVITY</b>           | 1.33 ± 0.04 (For white and pastel colours) |
| <b>THEORETICAL SPREADING</b>      | 13.3 – 8.8 m <sup>2</sup> /lit.            |
| <b>RECOMMENDED DFT (DRY FILM)</b> | 40 – 60 microns/coat                       |
| <b>RECOMMENDED WFT (WET FILM)</b> | 75 – 113 microns/coat                      |
| <b>FLASH POINT</b>                | Water based                                |

**DRYING TIME**

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| Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time). |            |
| <b>TOUCH DRY</b>   | 4 – 6 hrs. |
| <b>HARD DRY</b>  | 6 – 8 hrs. |
| <b>DRY TO OVERCOAT</b>   | 4 - 5 hrs. |



**NATIONAL PROTECT SEAL MATT  
DECORATIVE COATINGS**

**TECHNICAL DATA SHEET**

**ADVANTAGES**

|                                   |   |
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| <b>NATIONAL PROTECT SEAL MATT</b> | Elastomeric, crack bridging, waterproof and anti-carbonation coating for concrete. Protects re-inforced concrete structures, anti-carbonation coating, barrier against salts and atmospheric gases. |
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**APPLICATION INSTRUCTION**

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| <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**

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| <b>APPLICATION METHOD</b>       | Spray: Airless spray or conventional spray.<br>Roller: Cotton roller offers attractive smooth finish.<br>Brush: Recommended for corners and edges painting. |
| <b>CLEANING/THINNING</b>        | Water   |
| <b>THINNER (VOLUME)</b>         | Maximum up to 25 % (Depends on the application method).   |
| <b>NOZZLE TIP</b>               | 0.53-0.78 mm (0.021-0.031")   |
| <b>SPRAY ANGLE</b>              | 40° - 80°   |
| <b>PRESSURE</b>                 | 20 MPa (200 kp/cm <sup>2</sup> , 2800 psi)  |
| <b>MIXING RATIO (BY VOLUME)</b> | NA  |
| <b>POT LIFE</b>                 | NA  |

**SYSTEM**

|                           |   |            |
|---------------------------|---|------------|
| <b>RECOMMENDED SYSTEM</b> | 1. National Acrylic Primer (W.B.) :               | 1coat      |
|                           | OR  |            |
|                           | 1. National Aqua Siloxane Primer :                | 1coat      |
|                           | OR  |            |
|                           | 1. National Penetrating Primer Sealer :           | 1coat      |
|                           | 2. National Shield Exterior Filler(If required.): | 1 - 2coats |
|                           | 3.National Protect Seal Matt:                     | 2 coats    |

**ADDITIONAL DATA**

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

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| <p><b>SAFETY<br/>PRECAUTIONS</b></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 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.</p> |
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**STORAGE & HANDLING**

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| <p><b>STORAGE</b></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.  
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