# NATIONAL FLAT/MATT SYNTHETIC ENAMEL

## PRODUCT DESCRIPTION

It is general purpose smooth and washable, alkyd based flat/matt synthetic enamel for interior applications. It has excellent leveling and opacity to provide a smooth flat finish to surfaces. It can be used for steel surface applications in moderate atmospheric environments. It is highly washable and has excellent adhesion on properly cleaned steel surfaces.

## RECOMMENDED USES

It is used as a general purpose washable interior finish for wood, steel, etc. surfaces. For steel surfaces, use National Red Oxide Primer or prior to the application of Flat Matt Synthetic Enamel. It has good adhesion to anti-corrosive primers and old paint system. It can be used for maintenance work by brush or roller.

## TECHNICAL DATA

| COLOUR, DRY FILM | As per National shade card |
| Finish, Dry Film | Smooth / Matt |
| Volume Solids (ASTM D2697) | 50 ± 2% |
| Specific Gravity | 1.50 ± 0.05 |
| Theoretical Spreading Range | 12.5 – 10.0 M²/LTR |
| Recommended DFT Range (Dry Film Thickness) | 40 – 50 Microns/Coat |
| Recommended WFT Range (Wet Film Thickness) | 80 – 100 Microns/Coat |
| Flash Point | 38°C |
| 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**: 1 – 1½ hours
- **Dry to Recoat**: 12 hours
- **Hard Dry**: 24 hours

*For same generic type paint.*
ADVANTAGES

NATIONAL FLAT/MATT SYNTHETIC ENAMEL
General purpose, washable, provides a smooth flat-matt finish, excellent leveling and opacity, excellent adhesion.

APPLICATION INSTRUCTION

SURFACE PREPARATION
It can be applied as topcoat over undercoated/primed panel. Galvanized steel, Aluminium and other light metal alloys should be etched or wash primed before primer/undercoat application.

APPLICATION DATA

APPLICATION METHOD
Brush, Roller, Spray etc.

CLEANING/THINNING
National GP Thinner

THINNER (VOLUME)
5 – 15% depends on the method of application

CONV. SPRAY REQUIREMENTS
Atomizing pressure: 50 psi

AIRLESS SPRAY REQUIREMENTS
Pressure: 2000 – 2200 psi

NOZZLE SIZE
0.018” – 0.020”

MIXING RATIO (BY VOLUME)
One pack

POT LIFE @ 30ºc (100 ml)
Not applicable

SYSTEM

RECOMMENDED SYSTEM
To be applied on prepared surface.

<table>
<thead>
<tr>
<th>No. of coats x DFT (micron)</th>
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<tbody>
<tr>
<td>For Steel Surfaces</td>
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<tr>
<td>National Red Oxide Primer</td>
</tr>
<tr>
<td>National Synthetic Undercoat</td>
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<tr>
<td>National Flat/Matt Synthetic Enamel</td>
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ADDITIONAL DATA

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

SAFETY PRECAUTIONS
As a general rule, avoid skin and eye contact by wearing overalls, gloves, goggles, and air 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 air mask. In the event of ingestion and eye contact, seek medical attention immediately. Painting must be carried out in well-ventilated area. This as industrial product, contains flammable materials and should be kept away from ignition sources. Local safety regulations should be followed.

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 stock 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.

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: 0215