NATIONAL ALIPHATIC POLYURETHANE H.B.

PRODUCT DESCRIPTION
A two pack, aliphatic iso-cyanate cured high build polyurethane finish with excellent resistance to atmospheric exposure. The fully cured coating has excellent resistance to splash of mineral and vegetable oils, white spirit, paraffins and aliphatic petroleum products. It provides excellent colour retention and non-chalking properties. It has very good abrasion and water resistance.

RECOMMENDED USES
A tough and abrasion resistant coating for cementitious metal, wooden etc. surfaces. It can be applied for interior/exterior applications. It can be over coated even after long atmospheric exposure. It is also used for the application of flooring.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>COLOUR, DRY FILM</th>
<th>Limited</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINISH, DRY FILM</td>
<td>Smooth / Matt</td>
</tr>
<tr>
<td>VOLUME SOLIDS (ASTM D2697)</td>
<td>62 ± 2%</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>1.30 ± 0.05 (mixed)</td>
</tr>
<tr>
<td>THEORETICAL SPREADING RANGE</td>
<td>8.2 M²/LTR</td>
</tr>
<tr>
<td>RECOMMENDED DFT RANGE (DRY FILM THICKNESS)</td>
<td>75 Microns/Coat</td>
</tr>
<tr>
<td>RECOMMENDED WFT RANGE (WET FILM THICKNESS)</td>
<td>120 Microns/Coat</td>
</tr>
<tr>
<td>FLASH POINT</td>
<td>25°C</td>
</tr>
<tr>
<td>FLEXIBILITY</td>
<td>Good</td>
</tr>
<tr>
<td>CHEMICAL RESISTANCE</td>
<td>Excellent</td>
</tr>
<tr>
<td>WATER RESISTANCE</td>
<td>Excellent</td>
</tr>
<tr>
<td>ABRASION RESISTANCE</td>
<td>Very good</td>
</tr>
</tbody>
</table>

DURING TIME

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

| TOUCH DRY | 1 – 2 hours |
| *DRY TO RECOAT/ OVER COAT | 8 – 10 hours |
| HARD DRY | 7 days |

* With same generic type paint.
ADVANTAGES

NATIONAL ALIPHATIC POLYURETHANE H.B.  Two component high build polyurethane. Good adhesion on various surfaces. It has excellent water and chemical resistance suitable for interior and exterior applications, excellent colour retention and non-chalking properties, very good abrasion resistance.

APPLICATION INSTRUCTION

SURFACE PREPARATION  New concrete should be allowed to cure for at least 28 days. Remove all grease, oil and other foreign materials by scrubbing with a heavy duty concrete cleaner. On permanent coatings it is recommended that the surface be roughened with suitable mechanical devise. On metal surface, an abrasive sandblast is required to Sa3, to make the metal absolutely free from loose particles, mil scales and dead metals. Surface should be clean and sound before painting.

APPLICATION DATA

APPLICATION METHOD  Conventional spray, Airless spray, Roller or Brush (touch-up)
CLEANING/THINNING  National Polyurethane Thinner (thinner should be added after mixing the components)
THINNER (VOLUME)  5%, depending on method of applications
CONV. SPRAY REQUIREMENTS  Pressure: 40 psi
AIRLESS SPRAY REQUIREMENTS  Pressure: 2200 psi
NOZZLE SIZE  0.016” – 0.020”
MIXING RATIO (BY VOLUME)  Base: Hardener 4:1 (Mix properly, keep for 10-15 minutes before use)
POT LIFE @ 30°C (100ml)  4 hours (reduced at higher temperature)
Note: Material may gel at elevated temperature.

SYSTEM

RECOMMENDED SYSTEM  For cementitious floor surfaces.
National Guard Primer for Cement (Clear) : 1 Coat
National Aliphatic Polyurethane H.B. : 2 Coats
If more thickness is required, apply 1-2 coats of National Guard Epoxy Flooring Topcoat S.F. OR National Guard Epoxy Flooring Topcoat OR National Epoxy Glasscote over primer coat.
For cementitious/plastered surfaces.
National Guard Primer for Cement (Clear)/White : 1 Coat
National Interguard H.B.(Spray Texture) (if required) : 1 Coat
National Aliphatic Polyurethane H.B. : 2 Coats
ADDITIONAL DATA

| SHELF LIFE @ 30°C | 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 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 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. This as industrial product contains flammable materials and should be kept away from the sparks and open flames, smoking in the area should not be permitted. Local safety regulation 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 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 test. 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: 0115