FIRE RETARDANT PAINT
NF-631-FP

Description

Nilifam-631-FP is designed for use as an fire retardant paint available in white color. The product is ideally suited for metal and structure, interior and exterior surfaces with good color and fire retardancy.

Nilifam-631-fp must be applied as topcoat.

Recommended use

Adhesion
Good to both primed and clean surfaces.

Gloss Retention
Good in mild to medium environments.

Temperature resistance
Dry: Maximum 70°C

Physical properties

Colors/Shade No
White.

Finish
Matt

Solid by Volume-%
38±2

Theoretical spreading rate
0.38 m² /lit-1000 Mic.
16 sq ft/US gallon-400mils

Flash point
38°C

Specific gravity
1.7 kg/lit-9.7 lbs/US gallon

V.O.C.
0 gr/lit

Shelf life
1 Year (25°C/77°F) from time of production. Depending on storage condition, mechanical stirring may be necessary before usage.

Application details

Conditions
Do not apply when relative humidity exceeds 80% or when the surface to be coated is less than 3 °C above the dew point.

Spray setting

Pump ratio minimum
30:1

Tip size
0.017–0.019 1.8 mm

Tip pressure
150 bar / 2200 Psi 4-5 bar

(Airless spray data are indicative and subject to adjustment)

Cleaning of tools
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Indicated film thickness, dry
38 microns

Indicated film thickness, wet
100 microns
**Drying and Curing Times at (20°C)**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry to touch</td>
<td>Max. 4 hour</td>
</tr>
<tr>
<td>Hard dry</td>
<td>72 hours</td>
</tr>
<tr>
<td>Full curing</td>
<td>Max. 15 days</td>
</tr>
<tr>
<td>Recoat interval, min</td>
<td>8 hours</td>
</tr>
<tr>
<td>Recoat interval, max</td>
<td>15 days, see Remarks</td>
</tr>
</tbody>
</table>

**Application and Curing Conditions**

**Surface condition**
The surface should be stable, firm, dry and free of dust, sand, loose old paint, dirt, grease and oil. It is recommended to apply a primer prior to top coating.

**Maintenance**
Touch-up with primer on areas repaired with filler is recommended prior to application of topcoats.

**Remarks**

**Recoating Coat**

None.

**Film thickness**
May be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate and may influence drying time and recoating intervals. Normal range is 1000 microns/400 mils.

**Physical data versus temperatures in mild atmosphere:**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Surface temperature</th>
<th>5°C/41°F</th>
<th>10°C/50°F</th>
<th>20°C/68°F</th>
<th>30°C/86°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry to touch approx.</td>
<td>10 hours</td>
<td>6 hours</td>
<td>4 hours</td>
<td>3 hours</td>
<td></td>
</tr>
<tr>
<td>Resist condensing humidity/ light showers after</td>
<td>4 days</td>
<td>2 days</td>
<td>36 hours</td>
<td>12 hours</td>
<td></td>
</tr>
<tr>
<td>Fully cured</td>
<td>-</td>
<td>30 days</td>
<td>15 days</td>
<td>10 days</td>
<td></td>
</tr>
<tr>
<td>Recoating interval with alkyd top coat</td>
<td>Min 24 hours</td>
<td>16 hours</td>
<td>8 hours</td>
<td>6 hours</td>
<td></td>
</tr>
<tr>
<td>Max</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

Maximum recoating interval in moderate atmosphere is 15 days.

A completely clean surface is mandatory to ensure intercoat adhesion, especially at long recoating intervals. Any dirt, oil, and grease have to be removed, e.g. with suitable detergent. Salts should be removed by fresh water hosing. To check an adequate quality of the surface cleaning a test patch is recommended before actual recoating.

**Safety**

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult Nilifam material safety data sheets and follow all local and national safety regulations. Harmful or fatal if swallowed; immediately seek medical assistance. Avoid inhalations of possible solvent vapors or paint mist, as well as paint contact with skin and eyes. Apply only on well-ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. Always take precautions against the risks of fire and explosions.