This product can be used in the room of public use facilities and multi-unit dwellings with households of not less than 100 to less than 500 under the Indoor Air Quality Control Act.

This paint is a two-component wash primer with no detection of regulated material such as heavy metal, which is made by using polyvinyl butyral modified resin with strong adhesion, excellent anti-corrosive pigment and phosphoric acid catalyst. It is also widely used as a pretreatment etching primer for metals because of its excellent adhesion with subsequent primer and top coat.

**Usage**
A pre-treatment primer that can be applied to steel and nonferrous metals (aluminum, zinc steel, etc.)

**Specification**

<table>
<thead>
<tr>
<th>Paint type</th>
<th>Modified polyvinyl butyral resin / Wash primer (Two-component)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Drying time</strong></td>
<td></td>
</tr>
<tr>
<td>Category</td>
<td>5℃</td>
</tr>
<tr>
<td>Set to Touch</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Dry-Hard</td>
<td>40 minutes</td>
</tr>
<tr>
<td>Over-coat (Min.)</td>
<td>4 hours</td>
</tr>
<tr>
<td>Over-coat (Max.)</td>
<td>72 hours</td>
</tr>
<tr>
<td>Maturation time</td>
<td>10 minutes</td>
</tr>
<tr>
<td>Pot life</td>
<td>16 hours</td>
</tr>
</tbody>
</table>

| Thinner | No dilution(Cleaning thinner: DR-510) | Dilution ratio | No dilution |
| Specific gravity | Approx. 0.9 | Solid volume ratio | Approx. 20±1% |
| Theoretical Coverage | 20㎡/ℓ (1 coat - 10㎛) | Thickness of dried film | 10㎛ |
| Color | Black, gray | Flash point | 7℃ |
| Mixing ratio | Base(A)/Hardener(B)=2/1(weight ratio) | Gloss | Matte |
| Shelf life | 12 months (well-ventilated dry, cold and dark location) | |

**Product Properties (Physical Property Data)**

- **Excellent adhesion**: A pre-treatment primer that can be applied to steel and nonferrous metals (aluminum, zinc steel, etc.)
- **Superior film property**: Adhesion, anti-corrosive properties, workability are excellent.

**How to Use**

1. **Surface treatment**
   - 1. Completely remove oil, moisture, sand, dust and foreign substances from the surface.
   - 2. Apply immediately after surface treatment of the steel.
   - 3. Light metals should be coated after solvent cleaning. If washed after polished with abrasive paper, adhesion will be better.

2. **Coating Method**
   - 1. Coating can be done by either brush, roller, or airless spray coating.
   - 2. Airless spray coating:
     - Tip diameter : 0.013”~0.017”
     - Injection pressure : 1500~2000 PS.I(105~140㎏/㎠)
     - Store the coating equipment after cleaning with an exclusive thinner immediately after use.

3. **Preceding & Follow-up Coating**
   - 1. Follow-up Coating : Applicable to Epoxy, alkyd, urethane paint.

4. **Remarks**
   - 1. Precautions
     - Mix by slowly adding the hardener part (acid part) to the base part, using an accurate mixing ratio.
     - Since this paint cannot completely hide the material, top coating can be applied in the case there are no problems in the coating even if covered area is uneven after coating.
     - As this paint is used as a pretreatment agent, it should be thinly coated. If coated thickly, adhesion is lowered.
     - Apply a top coat within 72 hours.
     - Store at room temperature (5~35℃) since it can change into gel if it is stored at low temperatures of 4℃ or below for a long period of time.
     - (If paint that has turned into gel is warmed up to room temperature by placing it in a warm room or warm water and is stirred well, it turns back to the original state.)

**FREE WASH**

Two-component wash primer

- **Preceding & Follow-up Coating**
  - Applicable to Epoxy, alkyd, urethane paint.

- **Specific gravity**: Approx. 0.9
- **Flash point**: 7℃
- **Solid volume ratio**: Approx. 20±1%

- **Pot life**: 16 hours (well-ventilated dry, cold and dark location)

- **Drying time**: 30 minutes (5℃), 20 minutes (20℃), 10 minutes (30℃)
- **Maturation time**: 10 minutes (5℃), 5 minutes (20℃), 3 minutes (30℃)

- **Dilution ratio**: No dilution (Cleaning thinner: DR-510)
- **Cleaning thinner**: DR-510
- **Dilution ratio**: No dilution
- **Flash point**: 7℃
- **Solid volume ratio**: Approx. 20±1%