Notes on Application (Spray Painting)
1. When using this product always follow the instructions given in the catalog.
2. Use of thinner other than those specified may result in application difficulties and inferior results.
3. Clean all dirt off the surface being painted. Make sure surface is perfectly clean.
4. Use immediately after diluting with thinner.
5. Depending on the product, between-layer adhesion may degrade because of ambient conditions.
6. Be sure to test a paint sample before using on the main surface.

Service Life and Storage
1. Service life for the unopened primer is 6 months from factory shipping date. For thinner, service life is 1 year. After opening use as soon as possible.
2. Store in a blocked storage area specifically for hazardous materials.
3. Never expose to direct sunlight or water leakage.
4. Store in a well-ventilated, cool, dark place.
5. Make sure the lid is sealed tight, and store in accordance with all relevant regulations.
6. Keep away from children at all times.
7. Store in an cool a place as possible without direct sunlight and below 40°C.

Safety Considerations

Safe and Proper Use
1. Keep face well away from container when opening.
2. A damaged container is a pollution and fire hazard. Always handle carefully.
3. When transporting and storing, always keep container upright. Never store on its side.
4. Do not use near a fire hazard.
5. Use local exhaust ventilation in any area where the product is being used.
6. Avoid skin exposure to the product. Use protective gloves, clothing, goggles and face shields.
7. If spilled, use sand or similar material to absorb as much as possible before cleaning.
8. Always wash your hands and gargle after use.
9. Do not eat or smoke when using this product.

Emergency Procedures
1. If the product gets on hair or skin, immediately remove all contaminated apparel, wash and remove with plenty of soapy water.
2. If injury results, seek medical treatment.
3. If the product gets into the eyes, flush with plenty of water and seek medical treatment as soon as possible.
4. If nauseous or ticked by inhaling fumes, move to an area with fresh air and rest as long as needed. Seek medical treatment if needed.
5. If the product is swallowed by mistake, seek medical treatment as soon as possible.

In Case of Fire
1. In case of fire, suppress fire if possible with carbon dioxide gas, bubble or powder extinguisher, or drying sand.

Disposal
1. After using up all the primer, dispose of the container properly.
2. Treat the container and product contained therein as industrial waste products, and dispose in accordance with all relevant national and local laws, regulations and ordinances.
3. When disposing of paint, paint container, and painting implements, treat as industrial waste products.

Other Points
1. For more details refer to the product Safety Data Sheet (SDS).
2. This product is intended for indoor use. Avoid using in outdoor applications or anywhere with long-term exposure to direct sunlight.

The contents of this catalog may change without notice at any time. Make sure you have the latest information on this product. The contents of this catalog, including text and images, cannot be copied or used for purposes other than intended, without express consent of the copyright owner.
**Characteristics**

Superior Adhesion
Superior adhesion even to non-ferrous metals like aluminum and stainless steel.

Excellent Corrosion Resistance and Beautiful Finish
Special anti-corrosion additives help preserve the primed surface. A beautiful finish is achieved due to superior wettability, opacity, and minimal paint absorption when applying top coat.

No Need for Specific Drying Temperature
Dries under a wide range of temperatures, from ambient to force-drying conditions (60°C-180°C).

**Environmental Consideration**

Developed Specifically for Eco-Friendliness
- This primer contains less than 0.1% of such hazardous substances as Toluene, Xylene, MIBK, and Styrene.
- In this primer, we have managed to reduce by more than 99% the hazardous substances defined under the PRTR Law (as tested in-house against our previous products in July 2020).
- The product strictly conforms to the standards outlined in Japan’s Hazardous Chemical Substances Act (amended June 2017).
- There is also no use of any of the 10 hazardous substances* defined by the RoHs 3 Directive.

* Cadmium / Lead / Mercury / Hexavalent chromium / Polybrominated diphenyl ether (PBDE) / Hexachlorobenzene / Dibutyl phthalate / Di(2-ethylhexyl) phthalate / Bis(2-ethylhexyl) phthalate

**Intended use**

Use as an undercoat on metallic and non-metallic surfaces in general industrial applications.

**Colors**

301 Gray / 802 Black / 901 White
Consult your local sales representative if you need this primer in a non-standard color.

**Packaging**

Edo Bosel EPR : 16kg

**For Best Results Use This Thinner**

Thinner 2110 S (for summer), SW (for spring/fall), W (for winter) : 16L

**Directions for use**

1. Pretreatment
   Remove all oils from the surface to be painted. Make sure surface is perfectly clean.

2. Stirring
   Stir and mix the primer well before diluting.

3. Dilution and Blending
   Best proportions are: Paint/Thinner 10/3-5. Always use Thinner 2110 and dilute accurately using component weight. Adjust viscosity using the NK-2 Iwata Viscosity Cup for 20-30 seconds at 25°C.

4. Application (spray painting)
   - **Air Pressure:** 0.2 - 0.5 MPa
   - **Nozzle Diameter:** 1.0 - 1.5 mm
   - **Standard Thickness:** 15 - 25 μm
   - **Application Quantity:** about 130g/m²

5. Drying
   - Ambient Temp Drying (25°C) : Dry to Touch 15 minutes, Hard Dry 60 minutes
   - Forced Drying (60-180°C) : 5 - 10 minutes

**Performance**

**Results of Single Layer Test (Edo Bosel EPR301Gray)**

<table>
<thead>
<tr>
<th>Test Item</th>
<th>Result</th>
<th>Test Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesion</td>
<td>100 / 100</td>
<td>Cross-cut Test</td>
</tr>
</tbody>
</table>

**Pencil Hardness**

HB

**Film Hardness Tester Using Pencils (1 kg of load)**

**Flex Resistance**

Passed

**Bend Testing Machine (60°C x 1 sec./180°)**

**Chip Resistance**

Dupont Impact testing (900 x 900 N x 50g x 40mm)

**Larger Temperature Rubbing**

**Solvent Resistance**

(500g weight less than or equal to 15 repetitions until under-surface exposure)

**Salt Resistance**

140g Rubbing

(500g weight less than or equal to 15 repetitions until under-surface exposure)

**Salt Water Spray Tester**

(5% NaCl solvent x 20°C ambient temp x Humidity 95% x 159 hours)

**Multilayer Adhesion Test Results (Edo Bosel EPR301Gray + Topcoat)**

<table>
<thead>
<tr>
<th>Topcoat</th>
<th>Topcoat Drying Conditions</th>
<th>Test Item</th>
<th>Result</th>
<th>Test Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Component Urethane Paint</td>
<td>After 30 minutes at 60°C</td>
<td>Adhesion</td>
<td>100 / 100</td>
<td>Cross-cut Test</td>
</tr>
<tr>
<td>(Teco Bright ER)</td>
<td>2-Day Ambient Temperature Drying</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Topcoat</th>
<th>Topcoat Drying Conditions</th>
<th>Test Item</th>
<th>Result</th>
<th>Test Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Component Acrylic Urethane Paint (NEKOUS NX)</td>
<td>After 30 minutes at 130°C</td>
<td>Adhesion</td>
<td>100 / 100</td>
<td>Cross-cut Test</td>
</tr>
<tr>
<td></td>
<td>2-Day Ambient Temperature Drying</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Topcoat</th>
<th>Topcoat Drying Conditions</th>
<th>Test Item</th>
<th>Result</th>
<th>Test Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melamine Paint (Merado MK)</td>
<td>After 30 minutes at 190°C</td>
<td>Adhesion</td>
<td>100 / 100</td>
<td>Cross-cut Test</td>
</tr>
<tr>
<td></td>
<td>1-Day Ambient Temperature Drying</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
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<tr>
<th>Topcoat</th>
<th>Topcoat Drying Conditions</th>
<th>Test Item</th>
<th>Result</th>
<th>Test Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyester Paint (Topolyne T3)</td>
<td>After 30 minutes at 190°C</td>
<td>Adhesion</td>
<td>100 / 100</td>
<td>Cross-cut Test</td>
</tr>
<tr>
<td></td>
<td>1-Day Ambient Temperature Drying</td>
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<td></td>
</tr>
</tbody>
</table>

Note: Undercoat Drying Conditions: left to dry for 7 days under ambient temperature.

Note: The test result do not guarantee the quality and performance of our product under all conditions.