

# URECOAT PRIMER

This specification applies to the urethane flooring construction shown in the drawing. It is a paint mainly composed of polyurethane resin. Samhwa paint or equivalent products should be submitted in advance and approved by the supervisor.

## 1. Special Feature

Urecoat Primer is a moisture-curing paint for sports facilities & floorings which is mainly composed of urethane resin. It penetrates deeply into the surface of concrete and cement to enhance the surface strength and improve the adhesion to subsequent paint.

## 2. Usage

Floor paints for concrete and other areas of civil engineering and buildings.

## 3. Application

<b>Surface Preparation</b>	<p>1. Surface preparation</p> <p>1) The surface to be coated should be sufficiently dry. (Relative humidity 80% or less at 25 °C, sufficient curing for 28 days or more)</p> <p>2) All surfaces must be free of rust, dust, grease, oil, moisture or other contaminants.</p> <p>3) Minimum concrete strength need more than 160 kgf/㎠. In case of high strength concrete (260 kgf / ㎠ or more), it is necessary to perform surface treatment by blasting method because bad adhesion may occur during the treatment of grinding.</p> <p>2. Environmental conditions</p> <p>Air temperature: 10 to 35°C range. Relative humidity: up to 80%. *note: To prevent moisture condensation during application, surface temperature must be at least 3°C above the dew point. In confined spaces, ventilation is required during application and drying.</p> <p>3. Application Equipment</p> <p>Roller, Brush, Air spray</p>																																																
<b>Application System</b>	<p>Primer : URECOAT PRIMER: 50μm Under Coat : URECOAT SEMI-HARD: 500μm Under Coat2: URECOAT SEMI-HARD: 2,500μm Top Coat : URECOAT TOP COATING: 45μm</p>																																																
<b>Coverage</b>	<table border="1"> <thead> <tr> <th>Coating order</th> <th>Product name</th> <th>Standard number</th> <th>Coating times</th> <th>Dry film thickness</th> <th>Theoretical consumption</th> <th>Actual consumption</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td><b>Primer</b></td> <td>URECOAT PRIMER</td> <td></td> <td>1</td> <td>50μm</td> <td>0.138 L/m<sup>2</sup></td> <td></td> <td></td> </tr> <tr> <td><b>Under Coat 1</b></td> <td>URECOAT SEMI-HARD</td> <td></td> <td>1</td> <td>500μm</td> <td>0.770 kg/m<sup>2</sup></td> <td></td> <td></td> </tr> <tr> <td><b>Under Coat 2</b></td> <td>URECOAT SEMI-HARD</td> <td></td> <td>1~2</td> <td>2,500μm</td> <td>3.840 kg/m<sup>2</sup></td> <td></td> <td></td> </tr> <tr> <td><b>Top Coat</b></td> <td>URECOAT TOP COATING</td> <td></td> <td>1</td> <td>45μm</td> <td>0.088 L/m<sup>2</sup></td> <td></td> <td></td> </tr> <tr> <td><b>TOTAL</b></td> <td></td> <td></td> <td>4~5</td> <td>3,095μm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>* Practical Coverage can be increased or decreased followed by working condition, work method, and so on. * VAT not included * Separation of construction cost</p>	Coating order	Product name	Standard number	Coating times	Dry film thickness	Theoretical consumption	Actual consumption	Remark	<b>Primer</b>	URECOAT PRIMER		1	50μm	0.138 L/m <sup>2</sup>			<b>Under Coat 1</b>	URECOAT SEMI-HARD		1	500μm	0.770 kg/m <sup>2</sup>			<b>Under Coat 2</b>	URECOAT SEMI-HARD		1~2	2,500μm	3.840 kg/m <sup>2</sup>			<b>Top Coat</b>	URECOAT TOP COATING		1	45μm	0.088 L/m <sup>2</sup>			<b>TOTAL</b>			4~5	3,095μm			
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<b>Application Procedure</b>	<p>1. Primer</p> <ul style="list-style-type: none"> <li>- After finishing the treatment, apply Urecoat Primer 50μm once with roller or brush.</li> <li>- It is used without dilution and it is applied so that it penetrates sufficiently on the surface.</li> <li>- If the undercoat is thick on the surface of the substrate, the contact area between the substrate and the center will be reduced and the adhesion will be poor.</li> <li>- The untreated parts should be applied without leaving them because of the possibility of air bubbles in the middle coating.</li> <li>- For the part where more than 2 days have elapsed since the painting, add a thin coating to the layer to reinforce the interlayer adhesion.</li> <li>- Use the material within pot life.</li> </ul> <p>2. Intermediate</p> <ul style="list-style-type: none"> <li>- Remove all contaminants on the undercoat within 6 to 48 hours after coating and calculate the amount of paint and area required for 0.5mm thickness. Mix the 3 : 1 weight of Urecoat Semi-Hard with the curing agent.</li> <li>- After mixing the Urecoat Semi-Hard with the hardener with a motorized agitator, pour the paint on the bottom and then apply SCRAPING with a total coating thickness of 0.5mm using rake or spatula.</li> <li>- At this time, remove pinholes and blisters caused by pores in the pores, then cover with urethane sealant and then paint afterwards.</li> </ul> <p>3. Intermediate2</p> <ul style="list-style-type: none"> <li>- After a minimum of 24 hours at 20 ° C after the intermediate coating, remove all contaminants on the intermediate coating and</li> </ul>																																																

	<p>calculate the required amount for 2.5mm of paint area and film thickness to mix the Urecoat Semi-Hard with the curing agent in a weight ratio of 3 : 1 do.</p> <ul style="list-style-type: none"> <li>- After mixing the Urecoat Semi-Hard with the hardener, the paints are poured on the bottom surface and then applied with a rake or a spatula so that the total thickness of the paint is 2.5 mm.</li> <li>- After the curing agent is pre-poured in the main part, the reaction proceeds without mixing. Immediately mix and paint.</li> <li>- Do not use paints that have passed the pot life because the spreadability is poor and the appearance of the coating film becomes poor.</li> <li>- In principle, you can't use Urethane 1000 Thinner to improve workability at low temperatures. Also, excessive dilution may lead to poor drying, lower hardness and cracking of coating film.</li> <li>- When applying Urecoat Semi-Hard, when it does not become a vesicle, urethane type thinner is sprayed to remove air bubbles.</li> </ul> <p>4. Top Coat</p> <ul style="list-style-type: none"> <li>- Within 2 days after the completion of the intermediate coating, mix the base of Urecoat Top Coating and the hardener in a volume ratio of 6.3 : 1 and apply once 45 <math>\mu</math>m.</li> <li>- Mix only the amount to be used within the pot life and dilute urethane 1000 thinner by 5%.</li> </ul>
<p style="text-align: center;"><b>Caution</b></p>	<ol style="list-style-type: none"> <li>1. Avoid contact with eyes and repeated contact with skin.</li> <li>2. Keep away from heat and open flame.</li> <li>3. Keep adequate ventilation during application.</li> <li>4. Avoid breathing of vapors or spray mist.</li> <li>5. After the painting work, please wash exposed skin thoroughly.</li> <li>6. Keep the container closed when not in use.</li> <li>7. Store in the area beyond children's reach.</li> <li>8. Do not mix this product with other paints.</li> <li>9. Avoid applying paint on rainy days, high humidity (over 80%), low temperature (below 5 °C) and high temperature (over 40 °C surface temperature).</li> <li>10. Store the product in a dry, cool place at room temperature (5 ~ 35 °C) away from fire and direct sunlight. Keep container tightly closed with the injection port facing up.</li> <li>11. Alcohol-Containing thinner(Epoxy thinner) never use. When use it, Paints doesn't dry.</li> <li>12. Since this product is a chemical product, it may deteriorate during long-term storage. Please use it within the validity period. Please use the product after confirming it with the consumer counseling room.</li> </ol>