

# GREEN WATERPROOF RAPID-CURING PRIMER

This specification applies to the urethane-exposed waterproofing 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

Green Waterproof Rapid-Curing Primer is a moisture-curing paint for roof waterproofing 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

Waterproof paints for rooftops and other areas of civil engineering and buildings

## 3. Application

<b>Surface Preparation</b>	<p>1. Surface preparation</p> <ul style="list-style-type: none"> <li>- The surface to be coated should be sufficiently dry. (Relative humidity 80% or less at 25 °C, sufficient curing for 28 days or more)</li> <li>- All surfaces must be free of rust, dust, grease, oil, moisture or other contaminants.</li> <li>- Minimum concrete strength need more than 160 kgf/cm<sup>2</sup>. In case of high strength concrete (260 kgf / cm<sup>2</sup> or more), it is necessary to perform surface treatment by blasting method because bad adhesion may occur during the treatment of grinding.</li> </ul> <p>2. Environmental conditions</p> <ul style="list-style-type: none"> <li>- Air temperature: 10 to 35°C range.</li> <li>- Relative humidity: up to 80%.</li> </ul> <p>*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> <ul style="list-style-type: none"> <li>- Roller, Brush</li> </ul>																																																							
<b>Application System</b>	Primer : GREEN WATERPROOF RAPID-CURING PRIMER																																																							
<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>Primer</td> <td>GREEN WATERPROOF RAPID-CURING PRIMER</td> <td></td> <td>1</td> <td>50μm</td> <td>0.138L/m<sup>2</sup></td> <td></td> <td></td> </tr> <tr> <td>Under Coat 1</td> <td>GREEN WATERPROOF MASTER MIDDLE COAT</td> <td></td> <td>1</td> <td>500μm</td> <td>0.810 kg/m<sup>2</sup></td> <td></td> <td></td> </tr> <tr> <td>Under Coat 2</td> <td>GREEN WATERPROOF MASTER MIDDLE COAT</td> <td></td> <td>1~2</td> <td>2,500μm</td> <td>4.020 kg/m<sup>2</sup></td> <td></td> <td></td> </tr> <tr> <td>Top Coat</td> <td>GREEN WATERPROOF MASTER TOP COATING</td> <td></td> <td>1</td> <td>45μm</td> <td>0.088L/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>3,095</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	Primer	GREEN WATERPROOF RAPID-CURING PRIMER		1	50μm	0.138L/m <sup>2</sup>			Under Coat 1	GREEN WATERPROOF MASTER MIDDLE COAT		1	500μm	0.810 kg/m <sup>2</sup>			Under Coat 2	GREEN WATERPROOF MASTER MIDDLE COAT		1~2	2,500μm	4.020 kg/m <sup>2</sup>			Top Coat	GREEN WATERPROOF MASTER TOP COATING		1	45μm	0.088L/m <sup>2</sup>			<b>TOTAL</b>			4~5	3,095			
Coating order	Product name	Standard number	Coating times	Dry film thickness	Theoretical consumption	Actual consumption	Remark																																																	
Primer	GREEN WATERPROOF RAPID-CURING PRIMER		1	50μm	0.138L/m <sup>2</sup>																																																			
Under Coat 1	GREEN WATERPROOF MASTER MIDDLE COAT		1	500μm	0.810 kg/m <sup>2</sup>																																																			
Under Coat 2	GREEN WATERPROOF MASTER MIDDLE COAT		1~2	2,500μm	4.020 kg/m <sup>2</sup>																																																			
Top Coat	GREEN WATERPROOF MASTER TOP COATING		1	45μm	0.088L/m <sup>2</sup>																																																			
<b>TOTAL</b>			4~5	3,095																																																				
<b>Application Procedure</b>	<p>1. Primer</p> <ul style="list-style-type: none"> <li>- After finishing the treatment, apply Green Waterproof Master Rapid-Curing 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 4 : 1 weight of Green Waterproof Master Middle Coat with the curing agent.</li> <li>- After mixing the Green Waterproof Master Middle Coat 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 Green Waterproof Master Middle Coat with the curing agent in a weight ratio of 4 : 1 do.</p> <ul style="list-style-type: none"> <li>- After mixing the Green Waterproof Master Middle Coat 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 Green Waterproof Master Middle Coat, when it does not become a vesicle, urethane type thinner is sprayed to remove air bubbles.</li> </ul> <p>3. Top Coat</p> <ul style="list-style-type: none"> <li>- Within 2 days after the completion of the intermediate coating, mix the base of Green Waterproof Master 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>