

# EPOCOAT AQUA TOP

This specification is applied to epoxy floor finishes as shown in the drawing. It is a two-pack type paint based on epoxy resin which is excellent in abrasion resistance and impact resistance. Samhwa Paint or equivalent products should be submitted with the approval of the supervisor.

## 1. Special Feature

EPOCOAT AQUA TOP is a water-soluble epoxy flooring that can be painted in places where it is difficult to use solvent-based paints and where the smell of solvents is sensitive. It is an environment-friendly product designed without adhesion, durability and film strength compared to solvent-based epoxy flooring.

## 2. Usage

Epoxy floor coatings for anti-dust floors, offices, restaurants, parking lot, factory, hospital, laboratory etc.

## 3. Application

| <b>Surface Preparation</b>   | <p>1. Surface Preparation</p> <ul style="list-style-type: none"> <li>- Prepare the surface free from any loose cement, dust, oil, moisture and other contaminants.</li> <li>- The surface to be coated should be sufficiently dry.<br/>(Relative humidity 80% or less at 25 °C, sufficient curing for 28 days or more)</li> <li>- It is necessary to completely remove LAITANCE, dust, oil and other contaminants on the substrate surface.<br/>(Such as sand blasting, Diamond Wheel Grinding or 10% HCL pickling)</li> <li>- A suitable pH value is 7 to 9. (Surface moisture content: 6% or less)</li> <li>- Extension joints and cracks are filled with polyethylene (PE) BACK-UP material after V-cutting, and gaps(joint) and grooves have to applied with Super Epoxy Putty.</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> <li>- V-cutting the edges of the wall and floor.</li> </ul> <p>2. Environmental conditions</p> <ul style="list-style-type: none"> <li>- Air temperature : 10~35 °C</li> <li>- Relative humidity : up to 80%</li> <li>- Surface moisture content : under 6%</li> <li>- The surface temperature must be at least 3°C above the dew point to prevent moisture condensation</li> </ul> <p>3. Application Equipment</p> <ul style="list-style-type: none"> <li>- Brush, roller, spray</li> </ul> |                 |               |                    |                         |                         |                         |                    |        |        |                     |  |   |      |                        |                         |          |          |                  |             |     |         |                        |                        |          |         |                        |             |     |         |                        |                        |          |              |  |  |     |          |  |  |  |
|------------------------------|---|-----------------|---------------|--------------------|-------------------------|-------------------------|-------------------------|--------------------|--------|--------|---------------------|--|---|------|------------------------|-------------------------|----------|----------|------------------|-------------|-----|---------|------------------------|------------------------|----------|---------|------------------------|-------------|-----|---------|------------------------|------------------------|----------|--------------|--|--|-----|----------|--|--|--|
| <b>Application System</b>    | <p>Primer : EPOCOAT AQUA PRIMER<br/>Top Coat : EPOCOAT AQUA TOP</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>Primer</td> <td>EPOCOAT AQUA PRIMER</td> <td></td> <td>1</td> <td>50μm</td> <td>0.167 L/m<sup>2</sup></td> <td>0.185 m<sup>2</sup>/L</td> <td>Loss 10%</td> </tr> <tr> <td>Top Coat</td> <td>EPOCOAT AQUA TOP</td> <td>Color(40μm)</td> <td>1~2</td> <td>40~80μm</td> <td>0.085 L/m<sup>2</sup></td> <td>0.935 L/m<sup>2</sup></td> <td>Loss 10%</td> </tr> <tr> <td>Thinner</td> <td>EPOCOAT AQUA TOP CLEAR</td> <td>Clear(40μm)</td> <td>1~2</td> <td>40~80μm</td> <td>0.105 L/m<sup>2</sup></td> <td>0.116 L/m<sup>2</sup></td> <td>Loss 10%</td> </tr> <tr> <td><b>TOTAL</b></td> <td></td> <td></td> <td>2~3</td> <td>90~130μm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>  | Coating order   | Product name  | Standard number    | Coating times           | Dry film thickness      | Theoretical consumption | Actual consumption | Remark | Primer | EPOCOAT AQUA PRIMER |  | 1 | 50μm | 0.167 L/m <sup>2</sup> | 0.185 m <sup>2</sup> /L | Loss 10% | Top Coat | EPOCOAT AQUA TOP | Color(40μm) | 1~2 | 40~80μm | 0.085 L/m <sup>2</sup> | 0.935 L/m <sup>2</sup> | Loss 10% | Thinner | EPOCOAT AQUA TOP CLEAR | Clear(40μm) | 1~2 | 40~80μm | 0.105 L/m <sup>2</sup> | 0.116 L/m <sup>2</sup> | Loss 10% | <b>TOTAL</b> |  |  | 2~3 | 90~130μm |  |  |  |
| Coating order                | Product name  | Standard number | Coating times | Dry film thickness | Theoretical consumption | Actual consumption      | Remark                  |                    |        |        |                     |  |   |      |                        |                         |          |          |                  |             |     |         |                        |                        |          |         |                        |             |     |         |                        |                        |          |              |  |  |     |          |  |  |  |
| Primer                       | EPOCOAT AQUA PRIMER   |                 | 1             | 50μm               | 0.167 L/m <sup>2</sup>  | 0.185 m <sup>2</sup> /L | Loss 10%                |                    |        |        |                     |  |   |      |                        |                         |          |          |                  |             |     |         |                        |                        |          |         |                        |             |     |         |                        |                        |          |              |  |  |     |          |  |  |  |
| Top Coat                     | EPOCOAT AQUA TOP  | Color(40μm)     | 1~2           | 40~80μm            | 0.085 L/m <sup>2</sup>  | 0.935 L/m <sup>2</sup>  | Loss 10%                |                    |        |        |                     |  |   |      |                        |                         |          |          |                  |             |     |         |                        |                        |          |         |                        |             |     |         |                        |                        |          |              |  |  |     |          |  |  |  |
| Thinner                      | EPOCOAT AQUA TOP CLEAR  | Clear(40μm)     | 1~2           | 40~80μm            | 0.105 L/m <sup>2</sup>  | 0.116 L/m <sup>2</sup>  | Loss 10%                |                    |        |        |                     |  |   |      |                        |                         |          |          |                  |             |     |         |                        |                        |          |         |                        |             |     |         |                        |                        |          |              |  |  |     |          |  |  |  |
| <b>TOTAL</b>                 |   |                 | 2~3           | 90~130μm           |                         |                         |                         |                    |        |        |                     |  |   |      |                        |                         |          |          |                  |             |     |         |                        |                        |          |         |                        |             |     |         |                        |                        |          |              |  |  |     |          |  |  |  |
| <b>Application Procedure</b> | <p>1) Primer</p> <ul style="list-style-type: none"> <li>- After surface preparation, mix A with B of Epocoat aqua primer, apply the paint on the surface with roller and brush until that is sufficiently absorbed.(approximately 50μm)</li> <li>- Use the material within pot life. (25°C, 3hrs)</li> <li>- It should be applied uniformly so that it does not become partly after coating.</li> <li>- In the case of a part where the paint surface is absorbed at the time of one time coating (where it is reduced to the initial background color), primer should be additionally coated.</li> </ul> <p>2) Top Coat</p> <ul style="list-style-type: none"> <li>- After a minimum of 24 hours at 20 ° C after primer, precisely calculate the required area for the coating area and film thickness of 50μm and mix the Epocoat aqua top base and curing agent in a volume ratio of 1.5: 1.</li> <li>- After mixing Epocoat aqua top and hardener with electric stirrer, pour and apply the paint on the floor by using roller, brush or spray.</li> <li>- If necessary, dilute with water to a maximum of 10%.</li> <li>- Epocoat aqua top should be applied within 40 minutes at 25 °C by mixing the base and the hardener.</li> <li>- When re-coating, coat after 24 hours at 20 °C.</li> </ul>  |                 |               |                    |                         |                         |                         |                    |        |        |                     |  |   |      |                        |                         |          |          |                  |             |     |         |                        |                        |          |         |                        |             |     |         |                        |                        |          |              |  |  |     |          |  |  |  |
| <b>Caution</b>               | <p>1) Avoid applying paint on rainy days, high humidity (over 80%), low temperature (below 5°C) and high temperature (over 40°C surface temperature).</p>   |                 |               |                    |                         |                         |                         |                    |        |        |                     |  |   |      |                        |                         |          |          |                  |             |     |         |                        |                        |          |         |                        |             |     |         |                        |                        |          |              |  |  |     |          |  |  |  |

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| <ol style="list-style-type: none"><li>2) 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 upward.</li><li>3) Do not mix this product with other paints.</li><li>4) After the painting work, please wash exposed skin thoroughly.</li><li>5) Dispose of the waste paint through the waste disposal company designated by the Ministry of Environment.</li><li>6) 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> |
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