

EPOCOAT 5100

# EPOCOAT 5100



**EPOCOAT 5100 is a solvent-free epoxy coating that has excellent chemical and abrasion resistance, impact resistance and adhesion. It has outstanding self-leveling and appearance.**

## Usage

Interior floor coverings for parking lots, offices, restaurants, hospitals, factories, laboratories, etc.

## Application Procedure

<b>Procedure</b>	<ol style="list-style-type: none"><li>1. Surface Preparation Prepare the surface free from any loose cement, dust, oil, moisture and other contaminants.</li><li>2. Environmental conditions Air temperature : 10~35°C Relative humidity : up to 80% Surface moisture content : under 6% The surface temperature must be at least 3°C above the dew point to prevent moisture condensation</li><li>3. Application Equipment Rake, Trowel</li></ol>
<b>Caution for usage</b>	<ol style="list-style-type: none"><li>1) Avoid applying paint on rainy days, high humidity(over 80%), low temperature(below 5 °C), and high temperature(over 40 °C surface temperature). (Coating film crack, adhesion failure, bubbles may occur)</li><li>2) Allow the surface to dry thoroughly(Relative humidity 80% or less at 25 °C, curing for more than 28 days)</li><li>3) Completely remove Laitance, dust, oil and other contaminants on the surface of the substrate (sand blasting, DIAMOND WHEEL GRINDING or 10% HCL pickling)</li><li>4) In case of high strength concrete (260 kgf/㎠ or more), it may cause defective adhesion during grinding process. Therefore, perform surface treatment by blasting method and check the adhesion performance.</li><li>5) Suitable pH value of substrate surface is 7 ~ 9 (Parallel water content less than 6%).</li><li>6) After filling the gap, grooves, cracks, etc. with epoxy putty after V-CUTTING, polish and apply after surface treatment.</li><li>7) V-CUTTING the edges of the contact area with the wall.</li><li>8) Use masking tape to prevent contamination outside the coating area.</li><li>9) Do not use the product by heating or mixing with other paint.</li><li>10) Please keep the recommended coating interval for repainting time.</li><li>11) Consider that the actual requirements may vary depending on the substrate condition, coating method and coating conditions.</li><li>12) The diluent should be recommended diluent, and excessive dilution should be avoided as it affects the flow phenomenon, workability and general properties.</li><li>13) Repair coating on the previous coat and old coat Please do a test coat before painting (if there is no adhesion).</li><li>14) After mixing the base and the hardener, mix well with the electric stirrer for 3 ~ 5 minutes to make uniform condition. (Use electric stirrer 1000RPM, 500W or more.)</li><li>15) It is recommended to spray thinner by spraying with air after painting, or to remove air bubbles by spraying.</li><li>16) Exposure to water (moisture), alcohol, etc. may cause discoloration / discoloration. Especially, at low temperature, amine brushing and whitening may be accompanied. In case of amine brushing at low temperature in winter, please apply with NEW EPOCOAT 210PLUS or EPOCOAT 1000 after surface treatment.</li><li>17) Please note that it may cause whitening and yellowing when applied to the outside.</li><li>18) Even if it is applied inside, be careful that the skylight will be yellow if it exists.</li><li>19) It may be used without dilution. When diluting, it may cause defects such as hardening delay, strength deterioration, color separation, CRACK, amine brushing and wrinkle. (5% Please use inside and outside dilution.)</li><li>20) When using summer and winter products at the same time, color difference may occur depending on drying speed.</li><li>21) Be aware that certain beverages may discolor.</li><li>22) When curing time is over after curing agent mixture, gel phenomenon (hardening) occurs and it cannot be used.</li><li>23) 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. Please note that the pot life is very short during summer and the viscosity, viscosity and smoothness are lowered due to increase of viscosity in winter.</li><li>24) Please use after confirming the adhesion with the old film at the time of maintenance painting.</li><li>25) Even with the same product, color, and lot when painting (including touch up), it may cause different color depending on the dilution ratio, coating equipment and coating method. Therefore, it should be painted by the same lot product, same painting equipment and method, Check the color and work if there is no abnormality.</li><li>26) After work, clean all painting tools with the specified cleaning agent.</li><li>27) Since this product is a chemical product, it may deteriorate during long-term storage. Please refer to our customer center for the products that have passed this period.</li></ol>

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<b>Caution for handling</b>	<ol style="list-style-type: none"> <li>1) Do not use any other purpose.</li> <li>2) Keep out of reach of infants and children. Do not apply to infants, children's equipment or food storage containers.</li> <li>3) Since this product is a flammable material, avoid access to direct sunlight and fire when transporting, storing and handling, and store in a dry, cold place at room temperature (5 ~ 35 °C).</li> <li>4) Please keep this product container sealed so that the injection port faces upward.</li> <li>5) Avoid skin contact and odor inhalation by wearing protective equipment such as respirator mask, protective gloves, goggles, etc. during work.</li> <li>6) Be careful that the paint does not come into contact with eyes, skin,</li> <li>7) If paint comes in contact with eyes and skin, wash thoroughly with running water and seek medical attention.</li> <li>8) If inhaled or ingested, seek medical advice immediately and follow the medical advice given in the container.</li> <li>9) Avoid work in a confined space, and if you unintentionally paint, ventilate it thoroughly with exhaust system before working.</li> <li>10) The remaining amount of paint after use may cause dry film or stagnation. Please use the full amount immediately after opening.</li> <li>11) When storing the cloth with flammable materials, there is a risk of spontaneous ignition, so be sure to dispose of it in a nonflammable container.</li> <li>12) Dispose of the waste paint through the waste disposal company designated by the Ministry of Environment.</li> <li>13) For other inquiries, please contact our Customer Service Center or refer to the Material Safety Data Sheet (GHS-MSDS), Technical Data, and Coating Specifications published on the website.</li> </ol>
<b>Warning</b>	Please refer to the warning in the appendix.
<b>Application system</b>	<ol style="list-style-type: none"> <li>1. Primer : Epocoat Primer, Epocoat Aqua primer</li> <li>2. Top coat : Epocoat 1000, New Epocoat 210Plus, Cerafloor Clear. Etc.</li> </ol>

## Physical Data

<b>Finish</b>	Gloss	<b>Color</b>	Light green, Grey, Etc
<b>Applied over</b>	Concrete, Cement	<b>Components</b>	2
<b>Volume Solid</b>	Approximately 97±3%	<b>Recommended Film Thickness</b>	3mm
<b>Coats</b>	1~2	<b>Mixing Ratio A : B</b>	5 : 1(wt)
<b>Recommended Coverage</b>	4.6kg/m <sup>2</sup> (Dry film thickness is 3mm)	<b>Diluent</b>	Don't diluent
<b>Cleaner</b>	Epocoat 1000 Thinner, Thinner 395	<b>Shelf Life</b>	12months (When stored indoors at 5~35°C)
<b>Diluent Ratio</b>	Depends on the surface and coatings	<b>Packing Unit [A : B]</b>	Approximately 16L [20kg / 4kg]

	5°C	20°C	30°C
<b>Dry hard(hr)</b>	48	18	12
<b>Dry through(day)</b>	9	4	3
<b>Pot life(mins)</b>	40	25	20
<b>Recoatable(day)</b>	2 ~ 9	1 ~ 4	1 ~ 3

The information given in this document is based on laboratory tests and on-site application results, but may vary depending on quality improvement and work conditions. 2017/09/07