

# Asphales D



**Asphales D, concrete permeable surface hardener, is mainly composed of lithium silicate. After it penetrates deeply into the concrete, it reacts with calcium hydroxide of concretes. Accordingly, it can strengthen and protect the concrete surface.**

## Usage

Used to indoor, outdoor concrete floor of factory, garage, parking lot. 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 Low pressure airless spray, sprayer, brush and roller.</li> </ol>
<b>Caution for usage</b>	<ol style="list-style-type: none"> <li>1) This product is applicable to concrete and cannot be used on other substrates.</li> <li>2) Keep the product from freezing (penetration and reaction may decrease)</li> <li>3) Excessive dilution may decrease the performance of concrete reinforcement. Dilution may vary depending on environmental conditions. (Concrete porosity, surface hardness, water content, ambient temperature, etc.)</li> <li>4) Apply this product to the concrete floor with a low pressure airless spray, low pressure sprayer or special equipment on a basis of 4m<sup>2</sup> / L (0.25L / m<sup>2</sup>), then rub thoroughly with a brush until it is slippery while keeping it moist for 30 to 40 minutes.</li> <li>5) After 30 ~ 40 minutes, when the concrete surface is slippery, apply a small amount of water, rub it with a brush and penetrate into the surface, and be careful not to leave the surface reinforcement residue on the surface.</li> <li>6) Application of Asphales does not cause gloss. But it must be polished using a ceramic resin pad at least 3~5 times or more and a top coat have to be applied.</li> <li>7) Please perform polishing after thorough drying. If you polish before drying completely, performance may decrease.</li> <li>8) When the gel is formed on the concrete surface after painting, it is necessary to apply a small amount of water, and penetrate Asphales into the concrete by rubbing with a brush.</li> <li>9) Do not apply to concrete surface with severe cracks.</li> </ol>
<b>Caution for handling</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).</li> <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>
<b>Warning</b>	Please refer to the warning in the appendix.
<b>Application system</b>	<ol style="list-style-type: none"> <li>1. Primer : No need Primer</li> <li>2. Intermediate : Asphales D and Polyshing</li> <li>3. Top coat : Asphales Top(If necessary)</li> </ol>

## Physical Data

<b>Finish</b>	Impregnation into concrete	<b>Color</b>	Transparency
<b>Applied over</b>	Concrete, Cement	<b>Components</b>	1
<b>Volume Solid</b>	Approximately 10%	<b>Recommended Coverage</b>	4m <sup>2</sup> /L Depends on the concrete surface.
<b>Coats</b>	1~2		
<b>Dry times(25°C)</b>	30 min~ 2 hrs (Impregnation)	<b>Recoatible(25°C)</b>	After 2hrs
<b>Diluent Ratio</b>	Water (MAX. 100%)	<b>Diluent</b>	Water
		<b>Shelf Life</b>	12months

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	Depends on the concrete surface.		(When stored indoors at 5~35°C)
<b>Packing Unit</b>	18L		

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