

UNEXPOSED NON-TAR WATERPROOFTAN(KS)

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**Unexposed Non-Tar waterproofan(KS), mainly composed of an elastic urethane resin, is an unexposed 2 components tar-urethane waterproof coating that has superior elasticity and excellent endurance to contraction and inflation caused by temperature variation and earthquakes. It is a preventive coating with superior adhesion, elasticity, durability, and water and cold weather resistances.**

## Usage

Used for roofs and other parts of civil engineering, building, non-flood waterproofing, general building, sewage terminal treatment plant, purification tank, bathroom, toilet, rooftop garden from water

## Application Procedure

<b>Procedure</b>	<ol style="list-style-type: none"><li>1. Surface Preparation<ol style="list-style-type: none"><li>1) The surface to be coated must be cured sufficiently.</li><li>2) Prepare the surface free from any loose cement, dust, Oil, moisture and other contaminants.</li><li>3) In case of high strength concrete (260kgf / <math>\text{m}^2</math> or more), it may cause bad adhesion, so it is necessary to perform surface treatment by blasting method and check adhesion performance.</li></ol></li><li>2. Environmental conditions<ul style="list-style-type: none"><li>Air temperature : 5~35°C</li><li>Surface temperature : up to 40°C</li><li>Relative humidity : up to 85%</li><li>Dew Point : over 3°C</li></ul></li><li>3. Application Equipment<ul style="list-style-type: none"><li>Trowel and Rake</li></ul></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, bubble generation 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 / <math>\text{m}^2</math> 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) Please use recommended thinner as diluent. Avoid excessive dilution as it affects flow phenomenon, workability, general properties.</li><li>13) If you do not paint primer, air bubbles may occur.</li><li>14) The curing agent reacts with the moisture in the atmosphere and hardens. Keep the curing agent left in the cool and dark place immediately after use.</li><li>15) Mixed paints should be used within pot life.</li><li>16) Do not use a paint that exceeds the pot life because its spreadability is poor and the appearance of the coating film</li></ol>

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	<p>becomes poor.</p> <p>17) Please use this product within the validity period because it may be deteriorated since this product is a chemical product.</p>
<b>Caution for handling</b>	<p>1) Do not use any other purpose.</p> <p>2) Keep out of reach of infants and children. Do not apply to infants, children's equipment or food storage containers.</p> <p>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).</p> <p>4) Please keep this product container sealed so that the injection port faces upward.</p> <p>5) Avoid skin contact and odor inhalation by wearing protective equipment such as respirator mask, protective gloves, goggles, etc. during work.</p> <p>6) Be careful that the paint does not come into contact with eyes, skin,</p> <p>7) If paint comes in contact with eyes and skin, wash thoroughly with running water and seek medical attention.</p> <p>8) If inhaled or ingested, seek medical advice immediately and follow the medical advice given in the container.</p> <p>9) Avoid work in a confined space, and if you unintentionally paint, ventilate it thoroughly with exhaust system before working.</p> <p>10) The remaining amount of paint after use may cause dry film or stagnation. Please use the full amount immediately after opening.</p> <p>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.</p> <p>12) Dispose of the waste paint through the waste disposal company designated by the Ministry of Environment.</p> <p>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.</p>
<b>Warning</b>	Please consult our enclosed here with warning notice.
<b>Application Systems</b>	<p>Primer : Urethane Waterproof Master 100</p> <p>Top coat : Unexposed Non-Tar Waterproofan(KS)</p>

## Physical data

<b>Finish</b>	Semi-Glossy	<b>Colors</b>	Black
<b>Applied over</b>	Mortar, and concrete	<b>Compenents</b>	2
<b>Coats</b>	1~2	<b>Recommended Film thickness</b>	3mm
<b>Mix-ratio(wt)</b>	A part : B part = 3 : 1	<b>Recommended Coverage</b>	4.20Kg/m <sup>2</sup> (@ D.F.T. 3mm) Allow for application losses and surface irregularities.
<b>Hardness(shore A)</b>	50~70	<b>Elongation</b>	Min 550%
<b>Tensile strength</b>	Min 2.0N/mm <sup>2</sup>	<b>Tearing strength</b>	Min 12.8N/mm
<b>Diluent</b>	Urethane1000 Thinner	<b>Shelf Life</b>	6months(When stored indoors at 5~35°C)
<b>Packing Unit</b>	18L(32Kg)		

	5°C	20°C	30°C
<b>Cured time(hour)</b>	48	24	18
<b>Dry time(day)</b>	10	5	3
<b>Pot life(min)</b>	40	30	20
<b>Dry for recoating(hour)</b>	48~96	24~48	18~48

※ Presented the technical data are changeable according to quality improvements or working conditions because they were acquired from the results of the laboratory tests and the scene of application