## DUV-SE500

## **UV Adhesive**



DUV-SE500 is a UV-curable adhesive that features outstanding stickiness and adhesiveness for glass. This one-component non-solvent-based product shows superior elasticity along with superior penetrance, turbidity, and yellowing resistance. It is suitable for manufacturing of explosion-proof transparent displays with outstanding weather resistance.

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Adhesive for manufacturing transparent display products made of glass

Specification				
Paint type	Non-solvent-based UV adhesive			
Product features	<ol> <li>It is a non-solvent-based adhesive that does not require solvent drying process.</li> <li>It features outstanding adhesiveness for glass.</li> <li>It shows very little shrinkage during UV curing.</li> <li>It features outstanding yellowing resistance.</li> <li>It has low viscosity, resulting in outstanding penetrance and workability.</li> </ol>			
Solid content (%)	> 99	Exterior	Transparent liquid	
Viscosity (vibration viscosity, 25 °C)	1.5 - 1.7	Specific gravity (25 °C)	0.98 ± 0.03	
IR drying conditions	Not required	Curing conditions	5,000 - 7,00mJ/ဏ², combination of metal lamp and mercury lamp	
Thinner/Available solvent	MEK, MIBK, ethyl acetate, butyl acetate, etc. (Whitening effect may occur on the cured surface when solvent is mixed with the product.)			
Storage conditions	Store in a shaded indoor space with sufficient ventilation.	Shelf life	12 months	

**Product Properties (Physical Property Data)** 

Penetrance *	> 93
Adhesiveness **	0.6 N/mm <sup>2</sup>
Elongation	> 300 %

\*80 - 100  $\mu \text{m}$  coating on 188  $\mu \text{m}$  PET film

\*\* Glass-glass adhesive surface approx. 0.25 m<sup>2</sup>, UTM test speed = 300 mm/min

## How to Use

How to Use	<ol> <li>Cleaning of target surface: When surface cleaning is necessary, use an appropriate solvent to remove oil and debris on the surface.</li> <li>Static electricity and dust removal: Treat the surface using an air shower or ionizer to prevent dust collection or static electricity on the surface.</li> <li>Residual contaminants may result in defective film exterior and adhesion.</li> <li>UV-curing conditions         <ul> <li>A UV lamp is either an electrode type or no electrode type. For an electrode-type UV lamp, a metal halide lamp or a high-voltage mercury lamp is recommended.</li> <li>More superior surface and film exterior can be achieved when nitrogen reflux is possible within the UV curing device.</li> <li>If the light is not intense enough, surface tack may occur or steaming or defective adhesion may result at high temperature.</li> </ul> </li> </ol>
Note	<ol> <li>It contains substances harmful to skin and body. Wear a mask and protective gears prior to work. (For more details, refer to the MSDS.)</li> <li>The product may deteriorate if exposed to natural light including sunlight, UV light (UV lamp), and work light (fluorescent light and incandescent light).</li> <li>There is a possibility of deterioration or volume expansion when stored at above 30 °C for a long period of time.</li> <li>Please use the product within its shelf life (12 months from the manufacturing date). There is a possibility of deterioration, precipitation, etc. when the product is stored for a long period of time. Please inquire the customer service center if you want to use a product that has been stored for a long time.</li> </ol>

property data listed above only as reference.

## NOROO 노루페인트