

# TECHNICAL INFORMATION

Revision: 0  
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## NEWOTEC<sup>®</sup> 547

<b>Product Category:</b>	Printing agent for aqueous dispersions												
<b>Fields of Application:</b>	Water retention agent for screen printing												
<b>Product Characteristics:</b>	<ul style="list-style-type: none"><li>➤ prevents surface drying on printing screens</li><li>➤ low emission</li><li>➤ easy to use</li></ul>												
<b>Chemical Composition:</b>	Aqueous solution containing polymeric glycol ethers and vinylpolymers												
<b>Technical Data:</b>	<table><tr><td>Appearance (20 °C):</td><td>colourless viscous liquid</td></tr><tr><td>Active content:</td><td>approx. 70%</td></tr><tr><td>Flash point:</td><td>&gt;100 °C</td></tr><tr><td>Boiling range:</td><td>approx. 100°C</td></tr><tr><td>Solidification range:</td><td>0°C</td></tr><tr><td>Compatibility:</td><td>compatible with most commonly used aqueous dispersions for screen printing</td></tr></table>	Appearance (20 °C):	colourless viscous liquid	Active content:	approx. 70%	Flash point:	>100 °C	Boiling range:	approx. 100°C	Solidification range:	0°C	Compatibility:	compatible with most commonly used aqueous dispersions for screen printing
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<b>Packaging:</b>	drum / IBC												
<b>Use concentration:</b>	<p>Approx. 1 to 3%, referring to the weight of the printing paste</p> <p>The quantity needed depends on the printing system and the processing conditions. Therefore we recommend to carry out pilot tests to determine the optimum dosage.</p> <p>It is important to avoid overdosage as undesired side effects might occur (like reduced adhesion on the surface, influence on the flexibility, soft handle etc.)</p>												

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### **Application:**

Many screen printing pastes tend to dry on the surface which can cause stickiness or even blocking of printing screens. Printing pastes based on acrylics are known to show this undesired effect very often.

As a water retention agent, NEWOTEC<sup>®</sup> 547 reduces the tendency of surface drying and keeps the printing screens "open" during processing. Especially in rotary screen printing the addition of a water retention agent is essential for a zero defect production.

NEWOTEC<sup>®</sup> 547 can be added at any stage during the preparation of a printing paste or to a ready-to-use system prior to processing. It is soluble in water at any ratio and can simply be stirred in. High shear forces or high-speed mixing are not required.

Within the recommended dosage levels, NEWOTEC<sup>®</sup> 547 is compatible with all commonly used aqueous dispersions. We recommend to begin with a concentration of 1% (referring to the ready-to-use printing paste) and only increase this amount in case of still insufficient performance. More than 3%, however, should not be added as undesired side effects might then occur.

The data in this technical information are derived from practical experience. They do not guarantee specific product properties or the suitability of the product for particular applications. Lab or pilot tests should be carried out in any case. Due to many different possible process conditions we cannot assume any liability. Any existing industrial patent rights have to be respected. Additional information on product properties pertaining to working safety as well as environmental protection can be found in the material safety data sheet.