

BW7440 Technical Data Sheet

Description	<p>BW7440 is an aliphatic waterborne polyurethane acrylate UV dispersion. This resin features excellent initial water resistance, with no abnormalities observed after 72 hours of water immersion post-curing. It offers easy matting with only a small amount of matting agent added, and can be used either as the main resin or blended with acrylic emulsions or other polyurethane dispersions.</p> <p>The coating film is non-tacky before curing, and forms a high-hardness film after UV curing. It is especially recommended for waterborne UV-curable wood coatings, including both primers and matte topcoats. It can also be applied in other coating systems.</p>	
	Functionality (theoretical)	4F
Specification	Appearance (25°C, visual)	Milky bluish liquid
	Viscosity (cps/25°C)	≤800
	Solid Content (%)	40-44
	Fineness (um)	≤15
	Average Particle Size (nm)	< 150
	pH(25°C)	6.5-8.5
	*The above data are for reference only. Final product specifications should refer to the officially released product standards.	
Key Features	Easily matting with good matting powder orientation	
	Excellent initial water resistance	
	Non-tacky surface before curing	
	Fast physical surface drying	
	Good compatibility with other water-based resins	

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<p>Recommended Applications</p>	<p>Waterborne UV-curable wood coating primers</p> <p>Waterborne UV-curable matte topcoats</p> <p>Other water-based UV coating applications</p>
<p>Packaging</p>	<p>60 kg plastic drum; 120 kg plastic drum</p>
<p>Storage Conditions</p>	<p>Store in a tightly sealed container at 5–45°C. Under these conditions, the product remains stable for 6 months.</p> <p>Avoid freezing and prolonged exposure to high temperature.</p>
<p>Safety & Handling</p>	<p>Avoid contact with skin, eyes, and clothing. Wear protective gloves during operation.</p> <p>In case of spillage, wipe clean with cloth and rinse with water.</p> <p>Please refer to the Material Safety Data Sheet (MSDS) for detailed safety information.</p> <p>Product must be tested before being used in mass production.</p>

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