

# UN-P303B



<b>General Description</b>	<b>UN-P303B</b> is a nanomaterial derived formulation to be used as additive in solvent based paint to impart protection against corrosion on MS substrate. <b>UN-P303B</b> is available with specific compatibility towards several resins allowing for incorporation into most material processes.																		
<b>Composition</b>	<b>UN-P303B</b> is manufactured by United Nanotech Products Ltd. and is described chemically as a combination of metal oxide nanoparticles and polymers.																		
<b>Typical Properties</b>	<b>UN-P303B</b> has the following typical properties: <table><thead><tr><th>Property</th><th>Analysis</th></tr></thead><tbody><tr><td>Appearance</td><td>Brown suspension</td></tr><tr><td>Odour</td><td>Pungent</td></tr><tr><td>Solubility</td><td>Epoxy Alkyd PU</td><td>Miscible Miscible Miscible</td></tr><tr><td>Stability</td><td>Light Temperature</td><td>Stable 0 - 60°C</td></tr><tr><td>Active component</td><td></td><td>~ 10%</td></tr><tr><td>Specific gravity</td><td></td><td>1.02 – 1.04</td></tr></tbody></table>	Property	Analysis	Appearance	Brown suspension	Odour	Pungent	Solubility	Epoxy Alkyd PU	Miscible Miscible Miscible	Stability	Light Temperature	Stable 0 - 60°C	Active component		~ 10%	Specific gravity		1.02 – 1.04
Property	Analysis																		
Appearance	Brown suspension																		
Odour	Pungent																		
Solubility	Epoxy Alkyd PU	Miscible Miscible Miscible																	
Stability	Light Temperature	Stable 0 - 60°C																	
Active component		~ 10%																	
Specific gravity		1.02 – 1.04																	
<b>Special Features</b>	The enhanced surface area of nanomaterials derived product <b>UN-P303B</b> yields thin layer effect, resulting in use of smaller amount of the product for the same area with improved protection.																		
<b>Addition</b>	<b>UN-P303B</b> should be added at charging stage under stirring. Good homogeneous distribution must be observed.																		
<b>Use Level</b>	2.0% <b>UN-P303B</b> to be used based on paint weight.																		
<b>Test result:</b>	Paint formulated using <b>UN-P303B</b> , tested for 'Protection against Corrosion' and 'Salt Spray' has passed: ~ 1400 hrs for epoxy, ~ 1400 hrs for polyurethane and ~ 200 hrs for alkyd resins. This formulation is free from any other anticorrosive pigments like Zinc Phosphate. The test was done on clean MS substrates with single paint coated. Test method: ASTM B117.																		
<b>Storage Conditions</b>	<b>UN-P303B</b> should be stored at temperatures within the range 0-60°C. Storage conditions should also be in conformance with applicable legal, fire and insurance regulations.																		
<b>Shelf Life</b>	Under correct storage conditions the normal shelf life for this product is 12 months.																		
<b>Safety Data Sheet</b>	MSDS is available upon request.																		