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# DATA SHEET

Issue date: 01/01/09  
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 Edition N°: 1  
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## UCOPOL M 505

<b>Type of Polymer:</b>	Moisture curing isocyanic polyurethane resin.																												
<b>Range of use:</b>	UCOPOL M 505 is recommended for the formulation of coatings for wood, plastics, concrete, rubber, textile fabric and leather.																												
<b>Specifications:</b>  (°) DATA SHOWN ON ANALYSIS CERTIFICATE	<table border="0" style="width: 100%;"> <tr> <td colspan="2" style="text-align: center;"><b>UCOPOL M 505</b></td> </tr> <tr> <td style="width: 60%;">Appearance</td> <td>Clear</td> </tr> <tr> <td>% NV</td> <td>53 ± 1 °</td> </tr> <tr> <td>Solvent</td> <td>Butyl Acetate/Ethyl Acetate (1:1)</td> </tr> <tr> <td>% Free TDI monomer</td> <td>&lt; 0,5 °</td> </tr> <tr> <td>% NCO</td> <td>4,8 ± 0,4 °</td> </tr> <tr> <td>Colour (Gardner 1953)</td> <td>1 MAX °</td> </tr> <tr> <td>Viscosity (23°C mPa*s)</td> <td>&lt; 50</td> </tr> <tr> <td>Flash point (ISO 1523)</td> <td>1°C</td> </tr> </table> <p style="text-align: center;"><b>SOLUBILITY:</b></p> <table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">KETONES</td> <td>Soluble</td> </tr> <tr> <td>ESTERS</td> <td>Soluble</td> </tr> <tr> <td>ESTERS OF GLICOLETHERS</td> <td>Soluble</td> </tr> <tr> <td>AROMATICS</td> <td>Limited soluble</td> </tr> <tr> <td>ALIPHATICS</td> <td>Insoluble</td> </tr> </table> <p>It is inadvisable to use solvents containing reactive groups (alcohols, amines, glycolethers etc.) as they react with UCOPOL M 505.          It is recommended to use always urethane grade solvents (&lt; 0.05% water).</p>	<b>UCOPOL M 505</b>		Appearance	Clear	% NV	53 ± 1 °	Solvent	Butyl Acetate/Ethyl Acetate (1:1)	% Free TDI monomer	< 0,5 °	% NCO	4,8 ± 0,4 °	Colour (Gardner 1953)	1 MAX °	Viscosity (23°C mPa*s)	< 50	Flash point (ISO 1523)	1°C	KETONES	Soluble	ESTERS	Soluble	ESTERS OF GLICOLETHERS	Soluble	AROMATICS	Limited soluble	ALIPHATICS	Insoluble
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<b>Properties and application :</b>	<p>UCOPOL M 505 is <b>ready to use</b> aromatic moisture curing prepolymer, with a viscosity in Ford cup (TF4) of <b>about 19"</b>, with excellent flexibility and good resistance to chemical agents.</p> <p>UCOPOL M 505 is mainly indicated for the formulation of high abrasion resistance coatings for the maintenance of wood, concrete floors, gymnasiums, anti-skid floors, plywood and many other substrates.</p> <p>Due to its aromatic content, coatings formulated with UCOPOL M 505 could turn yellow and have bleeding problems if applied outdoor.</p> <p>After 20-24 hours from the application, UCOPOL M 505 can completely dry and reach high film hardness.</p> <p>In order to avoid adhesion problems, when using UCOPOL M 505 we suggest to sand the product if the second hand is applied after 24 hours.</p>																												



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### UCOPOL M 505

<b>Storage and warranty:</b>	In sealed drums we guarantee a shelf life of six months, provided UCOPOL M 505 is stored under dry and cool condition. Storage at temperature higher than 30°C can lead to an increase of viscosity. Once opened, UCOPOL M 505 should be used rapidly because, like all isocyanates, it is sensible to moisture.
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The technical information provided in this sheet or given in oral or written form is based on our best knowledge and experience. These data, even technical and safety ones, are only suggestions, so they don't have to be considered as binding. The customer must test our products, technical assistance and information, to define to its satisfaction whether they are suitable for the intended use and application. The use, manufacture and the application conditions of our products are carried out beyond our control so they are under customer's responsibility. Sapici SpA guarantees the constant quality of the product, sales and delivery conditions.