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DATA SHEET

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POLURGREEN AD-01

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|--|--|------------|---------|---------|--------|---------|------------------------|---------|---------------|-----------------|--------------------|-----------|---|-------|------------|---|------------------------|------------|---|---------------------|-------|---|-----------------------|-------|---|
| Type of Polymer: | Aromatic polyurethane adduct with TDI content under 0,1%. | | | | | | | | | | | | | | | | | | | | | | | | |
| Range of use: | POLURGREEN AD-01 is recommended for the formulation of: <ul style="list-style-type: none"> Two component varnishes and enamels for parquet, wood furniture, metal, plastic and paper. Hardners for shoe market adhesive. Inks. | | | | | | | | | | | | | | | | | | | | | | | | |
| Specifications: (°) DATA SHOWN ON ANALYSIS CERTIFICATE | POLURGREEN AD-01 | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Appearance</td> <td style="width: 30%;">Clear</td> <td style="width: 30%;"></td> </tr> <tr> <td>% NV</td> <td>75 ± 2</td> <td style="text-align: right;">◦</td> </tr> <tr> <td>Solvent</td> <td>Ethyl Acetate</td> <td></td> </tr> <tr> <td>% Free TDI monomer</td> <td>< 0,1</td> <td style="text-align: right;">◦</td> </tr> <tr> <td>% NCO</td> <td>13,0 ± 0,5</td> <td style="text-align: right;">◦</td> </tr> <tr> <td>Viscosity (23°C mPa*s)</td> <td>2100 ± 900</td> <td style="text-align: right;">◦</td> </tr> <tr> <td>Viscosity (Gardner)</td> <td>V - Y</td> <td style="text-align: right;">◦</td> </tr> <tr> <td>Colour (Gardner 1953)</td> <td>1 MAX</td> <td style="text-align: right;">◦</td> </tr> </table> | Appearance | Clear | | % NV | 75 ± 2 | ◦ | Solvent | Ethyl Acetate | | % Free TDI monomer | < 0,1 | ◦ | % NCO | 13,0 ± 0,5 | ◦ | Viscosity (23°C mPa*s) | 2100 ± 900 | ◦ | Viscosity (Gardner) | V - Y | ◦ | Colour (Gardner 1953) | 1 MAX | ◦ |
| Appearance | Clear | | | | | | | | | | | | | | | | | | | | | | | | |
| % NV | 75 ± 2 | ◦ | | | | | | | | | | | | | | | | | | | | | | | |
| Solvent | Ethyl Acetate | | | | | | | | | | | | | | | | | | | | | | | | |
| % Free TDI monomer | < 0,1 | ◦ | | | | | | | | | | | | | | | | | | | | | | | |
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| Viscosity (Gardner) | V - Y | ◦ | | | | | | | | | | | | | | | | | | | | | | | |
| Colour (Gardner 1953) | 1 MAX | ◦ | | | | | | | | | | | | | | | | | | | | | | | |
| | <p style="text-align: center;">SOLUBILITY:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">KETONES</td> <td style="width: 40%;">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 POLURGREEN AD-01. It is recommended to use always urethane grade solvents (< 0,05% water).</p> | | KETONES | Soluble | ESTERS | Soluble | ESTERS OF GLICOLETHERS | Soluble | AROMATICS | Limited soluble | ALIPHATICS | Insoluble | | | | | | | | | | | | | |
| KETONES | Soluble | | | | | | | | | | | | | | | | | | | | | | | | |
| ESTERS | Soluble | | | | | | | | | | | | | | | | | | | | | | | | |
| ESTERS OF GLICOLETHERS | Soluble | | | | | | | | | | | | | | | | | | | | | | | | |
| AROMATICS | Limited soluble | | | | | | | | | | | | | | | | | | | | | | | | |
| ALIPHATICS | Insoluble | | | | | | | | | | | | | | | | | | | | | | | | |



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| <p>Properties and application :</p> | <p>POLURGREEN AD-01 can be used in combination with:</p> <ul style="list-style-type: none">• Not drying short and medium oil alkyd resins.• Hydroxylated acrylic resins.• Saturated polyester resins.• Vinyl resins. <p>It is highly compatible with:</p> <ul style="list-style-type: none">• CAB• Nitrocellulose <p>POLURGREEN AD-01 is recommended for two pack polyurethane systems where good surface hardness, durability, brightness and solvent resistance are required. The final properties of coatings depend on the type and on the quantity of the OH terminated polymer that is used as the first component. Due to its aromatic content, POLURGREEN AD-01 is recommended for indoor and outdoor coatings, when a good yellowing resistance is not requested.</p> <p>The free TDI content <0,1% reduces its hazard classification.</p> |
| <p>Storage and warranty:</p> | <p>In sealed drums we guarantee a storage life of six months, provided POLURGREEN AD-01 is stored under dry and cool condition. Once opened the product should be used rapidly, because like all isocyanates, it is sensible to moisture.</p> |

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.