

TECHNICAL INFORMATION

Revision: 0
Date: 18.04.2011
Page: 1/2

NEWOTEC[®] 310

| | | | | | | | | | | | | | |
|---------------------------------|--|---------------------|---|---------------------|---|--------------|---------|----------------|----------------|-----------------------|-------|----------------|---|
| Product Category: | Dispersing agent for pigments/fillers in organic liquids | | | | | | | | | | | | |
| Fields of Application: | Dispersions of pigments or fillers in organic carrier liquids, especially for use in PU colour pastes to disperse inorganic/organic pigments, carbon black, calcium carbonate or titanium dioxide | | | | | | | | | | | | |
| Product Characteristics: | <ul style="list-style-type: none">➤ anionic/non-ionic combination➤ free of APEO | | | | | | | | | | | | |
| Chemical Composition: | Preparation containing substituted polyglycol ethers and amines | | | | | | | | | | | | |
| Technical Data: | <table><tr><td>Appearance (20 °C):</td><td>colourless liquid</td></tr><tr><td>Active content:</td><td>100%</td></tr><tr><td>Flash point:</td><td>>100 °C</td></tr><tr><td>Boiling range:</td><td>approx. 175 °C</td></tr><tr><td>Solidification range:</td><td>< 0°C</td></tr><tr><td>Compatibility:</td><td>compatible with all solvents used in PU processing within the recommended concentration range</td></tr></table> | Appearance (20 °C): | colourless liquid | Active content: | 100% | Flash point: | >100 °C | Boiling range: | approx. 175 °C | Solidification range: | < 0°C | Compatibility: | compatible with all solvents used in PU processing within the recommended concentration range |
| Appearance (20 °C): | colourless liquid | | | | | | | | | | | | |
| Active content: | 100% | | | | | | | | | | | | |
| Flash point: | >100 °C | | | | | | | | | | | | |
| Boiling range: | approx. 175 °C | | | | | | | | | | | | |
| Solidification range: | < 0°C | | | | | | | | | | | | |
| Compatibility: | compatible with all solvents used in PU processing within the recommended concentration range | | | | | | | | | | | | |
| Storage: | <table><tr><td>Shelf life:</td><td>in originally sealed drums, approximately one year from the date of delivery under the conditions recommended below</td></tr><tr><td>Storage Conditions:</td><td>Recommended storage temperature: min +3°C, max +35 °C Protect from moisture Frost resistant</td></tr></table> | Shelf life: | in originally sealed drums, approximately one year from the date of delivery under the conditions recommended below | Storage Conditions: | Recommended storage temperature: min +3°C, max +35 °C Protect from moisture Frost resistant | | | | | | | | |
| Shelf life: | in originally sealed drums, approximately one year from the date of delivery under the conditions recommended below | | | | | | | | | | | | |
| Storage Conditions: | Recommended storage temperature: min +3°C, max +35 °C Protect from moisture Frost resistant | | | | | | | | | | | | |
| Packaging: | drum / IBC | | | | | | | | | | | | |
| Use concentration: | 2 - 10% referring to the weight of the <u>pigment</u> or <u>filler</u> content We strongly recommend to carry out own lab tests in order to determine the optimum dosage, especially when more than 10% are added. | | | | | | | | | | | | |

NEWOTEC[®] 310

Application:

NEWOTEC[®] 310 must be added to the liquid components before stirring in the pigments or fillers. This leads to much better results. Then the solids can be added in portions under continuous high speed mixing. The addition of NEWOTEC[®] 310 makes it easier to get homogeneous, smooth and well-dispersed pigment pastes of low viscosity.

How to formulate (example, values in weight-%):

| | |
|--------------------------|------|
| PU resin | 32.5 |
| dimethyl formamide DMF | 32.5 |
| carbon black | 32.5 |
| NEWOTEC [®] 310 | 2.5 |

Further Information:

NEWOTEC[®] 310 did not affect the light fastness or the heat stability of the polyurethanes tested.

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.