STABAXOL® – IMPROVED PERFORMANCE AT LOWER COST

Stabaxol®, a family of carbodiimide (CDI) based additives has proven to:

- Increase the service life of high performance packaging adhesives.
  - The “time to failure” can be greatly increased compared to unstabilized adhesives.

- Improve the cost-benefit ratio of adhesives in medium and high performance applications.
  - Formulators can use more cost-effective materials to fulfil current performance requirements…
  - and push their medium performance products into higher-performance segments.

Stabaxol® stabilized PU packaging adhesives demonstrate significantly improved performance in both standard Pressure Cooker and Climate Aging Tests.
- Depending on the choice of Stabaxol® and processing conditions – over 13 times greater maximum peel strength retention.

Similar results are seen in both the standard test formula and representative commercial adhesives.
Pressure Cooker Test results

- All components (except Iso) were heated at 80 °C / 5h prior to mixing to allow the pre-reaction of CDI and the acid groups in the polyester polyol.
- Maximum peel strength was 2.25 times that of the unstabilized one.
- Stabaxol® I achieved the highest peel strength. Monomerics are generally better than the oligomerics.

Climate Aging Test results without pre-reaction

- Time to onset of property loss extended by 6 times (168 h vs. 1000 h).
- Maximum peel strength retention extended by 13 times (168 h vs. 2200 h).
- All CDI’s evaluated increase the hydrolytic stability versus unstabilized.
- Stabaxol® I is the best overall.

Climate Aging Test results with pre-reaction

- Time to onset of property loss extended by 3 times (168 h vs. 500 h).
- Maximum peel strength retention extended by 8 times (168 h vs. 1300 h).
- All CDI’s evaluated increase the hydrolytic stability versus unstabilized.
- Stabaxol I and Stabaxol I LF performed the best.

Our technical advice, whether verbal, in writing or by way of trials, is given in good faith but without warranty, including in relation to proprietary rights of third parties, and does not release you from the obligation to carry out your own testing of the products supplied by us as to their suitability for the intended processes and uses. The application, use and processing of the products are beyond our control and, therefore, entirely your own responsibility. Should, in spite of this, liability be established for any damage, it will be limited to the value of the goods delivered by us and used by you. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery.

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Picture: Surgical tools in sealed packages, Mauritius.

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