

ORTEGOL® CXT

ORTEGOL® CXT is a chain extender that can be used as a processing aid for the manufacture of flexible polyurethane foam. It is a difunctional reactive additive that improves the processing latitude of sensitive formulations, especially those run at a low isocyanate index.

Typical Physical properties

Purity (wt %)	98.0 % min.
Colour to Hazen	20 max
Viscosity (25°C)	175 mPas
Specific Gravity (25°C)	1.02
Calculated OH number	1200 mg KOH/g
Water content (wt %)	0.1 % max

ORTEGOL® CXT is guaranteed to have a shelf life of at least 12 months from the date of delivery, provided it is stored in the original sealed drums and protected against high humidity and elevated temperature.

Application

ORTEGOL® CXT facilitates the production of soft flexible slabstock foam. Auxiliary blowing agents (like methylene chloride, liquid CO₂, acetone, etc) can be used to soften foam, but these formulations require an isocyanate index of at least 105 to achieve good processability. The stabilizing effect of ORTEGOL® CXT allows the same quality soft foams to be made at lower isocyanate index, hence reducing the dependence on auxiliary blowing agents to soften foam.

ORTEGOL® CXT is also effective as a processing aid in other sensitive formulations (high levels of filler or Natural Oil Polyols) that are susceptible to splits during production. Even with the higher isocyanate index, the processing window of these foams can be improved with the addition of some ORTEGOL® CXT.

In HR slabstock foams, ORTEGOL® CXT can be used to partially replace some of the DEOA cross-linker in the formulation. This is especially useful in HR systems based on high functionality polyols, as generally foam processing and physical properties can be improved.

ORTEGOL® CXT is also effective at broadening the processing window of medium to high density viscoelastic foams. The low water and isocyanate index typical of these formulations yield a very slow reacting system that is borderline between shrinkage and collapse. Using ORTEGOL® CXT helps to maintain consistent processing and improve the viscoelastic foam quality.

Typical use level of ORTEGOL® CXT ranges from 0.5 to 2.0 pphp and is highly dependent on the application and formulation. Generally, as use level of ORTEGOL® CXT is increased, foam becomes slightly tighter and catalyst levels may need to be adjusted to compensate. Also, foam generally tends to become slightly softer as ORTEGOL® CXT is increased.

Packaging

800 kg pallet (4 x 200 kg in steel drums)

Information concerning

- classification and labelling according to regulations for transport of chemicals
- protective measures for storage and handling
- measures in case of accidents and fires
- toxicity and ecological effects

is given in our material safety data sheets.

Legal References

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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