TEGOSTAB® B 8523

TEGOSTAB® B 8523 is an additive developed for use in rigid foam systems which are formulated for maximum open cell content. In these types of formulations TEGOSTAB® B 8523 effectively supports cell opening. TEGOSTAB® B 8523 is only a weak stabilizer therefore it has to be used in combination with silicone surfactants, e. g. TEGOSTAB® B 8871.

In particular, TEGOSTAB® B 8523 is the cell opener of choice for systems that are used to manufacture water blown, thermo-formable rigid foams as they are required to make automotive headliners. However, since the performance of this product largely depends on the nature of the formulations it might be considered for other systems that are designed for open cell rigid foams as well.

Physical Properties

Viscosity (25 °C)	150 – 550 mPas
Density (20 °C)	1.015 – 1.025 g/ml

*As this material is a newly developed product, the data and margins given above may still alter slightly.

Recommended storage conditions

TEGOSTAB® B 8523 has a solidification point below 0 °C. The viscosity increase at low temperatures is reversible and has no negative influence on the efficiency of TEGOSTAB® B 8523.

For TEGOSTAB® B 8523 we guarantee a shelf life of at least 12 months upon – provided it is kept in originally sealed drums and protected against extreme weather conditions, particularly against heat and water.

Application

Rigid polyurethane foams with an open cell structure are important materials for some industries, such as the construction (gap filling) or the automotive industry.

Here the typical insulation properties of rigid polyurethane foam are not required. The structural support and the energy absorbing nature of the foam is much more important. It is therefore quite common to use water as a chemical blowing agent. In most low density foam grades an open cell structure is essential to achieve a sufficient dimensional stability.

TEGOSTAB® B 8523 is a cell opener for rigid polyurethane foam systems which must be used together with a silicone stabilizer, preferably TEGOSTAB® B 8871. This combination of additives allows to adjust the open cell content of the obtained foam to the requirements of a given application by simply changing the ratio of the two components.

The cell opening efficiency of TEGOSTAB® B 8523 strongly depends on the formulation parameters and the foam processing conditions. Therefore the optimal use level as well as the ratio of TEGOSTAB® B 8523 and TEGOSTAB® B 8871 should be identified in an initial screening to avoid the formation of a coarser cell structure and to achieve the desired degree of cell opening.

Packaging

210 kg iron drums
1 000 kg plastic containers

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 an ecological effects

is given in our material safety data sheets.

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