



Schill + Seilacher

Technical Data Sheet

STRUKSILON 8023

Silicone Stabiliser for PU-Rigid Foam

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Application Fields

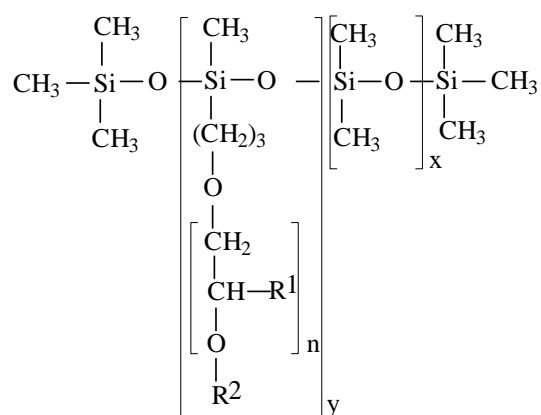
STRUKSILON 8023 is a universal stabiliser for polyurethane rigid foams. It is especially recommended for the use in poor in place and roof sprayfoam applications.

Chemical and Physical Properties

According to its chemical structure STRUKSILON 8023 is a polyether modified polydimethyl siloxane resistant to hydrolysis. Due to the negligible content of hydroxyl or other groups reactive towards isocyanates STRUKSILON 8023 is chemically inert in polyurethane formulations

STRUKSILON 8023 is a clear, colourless to slightly yellow liquid of middle viscosity, has strong stabiliser properties and is miscible with water at room temperature.

General chemical structure



R¹ : H (EO); CH₃ (PO)

R² : H, Alkyl, Acetoxy

n : 1 - 50

x : 1 - 100

y : 1 - 20

The data given are typical values which are not intended for use in preparing specifications. For test methods refer to the corresponding supplement.

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Typical Properties:

Viscosity at 25°C	[mPas]	800
Turbidity point	[°C]	app. 35
Density at 25°C	[kg/m ³]	app. 1030
Flash point	[°C]	> 100
Refractive index at 25°C		1.448
Physiological behaviour		refer to material safety data sheet
Storage stability		12 months in closed original containers if transported and stored at temperatures between 1 and 30°C.
Packaging		200 kg drums, 1000 kg containers (IBC)

Technical Properties

Due to its chemical structure STRUKSILON 8023 can be incorporated in A as well as in B-components. STRUKSILON 8023 is compatible with isocyanate.

Due its excellent stabilising activity STRUKSILON 8023 is especially used in poor in place and roof sprayfoam applications. It is compatible to all common physical blowing agents used in these applications like 141 b, 365 mfc and 245 fa. Also with total water blown systems very good results will be achieved.

Due to its compatibility to all blowing agents, its high stabilising activity and its A as well as B side compatibility, STRUKSILON 8023 offers an extraordinary processing window that allows the use of STRUKSILON 8023 in various formulations. Hence the number of silicon stabilisers that are used in different formulations can be reduced or even reduced to the sole use of STRUKSILON 8023.

STRUKSILON 8023 offers excellent emulsification properties in lower functionality polyetherpolyols. In mixtures with polyols of higher functionality or polyesterpolyols slight turbidity may occur especially when used in pentane blown systems. This turbidity neither has an influence on the effectiveness of the stabiliser nor are the foam properties effected.

Recommended Dosage

Usually, STRUKSILON 8023 is applied in quantities of 0.5 to 1.5 php (parts on 100 parts polyol). We recommend to adjust the optimum dosage to the corresponding formula. However, a concentration of 3 php should not be exceeded.

STRUKSILON 8023 is not a hazardous material for the purposes of hazardous materials regulation. STRUKSILON 8023 does not contain aminic components.

The suggestions for application and usage of our products as well as possible proposed formulations are meant to advise only to the best of our knowledge. This information is without obligation and does not release customers from their own testings to ensure suitability for intended processes and use. Liability is only accepted in case of intention or gross negligence. Liability for any defects caused by minor negligence are not accepted. Each producer is responsible and liable to observe legislation and patent rights of third parties. This new leaflet replaces all previously printed documentation. Alterations reserved. 11/2005

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