



# Schill + Seilacher

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Technical Data Sheet

## STRUKTOL VP 8028

Silicone Stabiliser for PU-Rigid Foam

### Application Fields

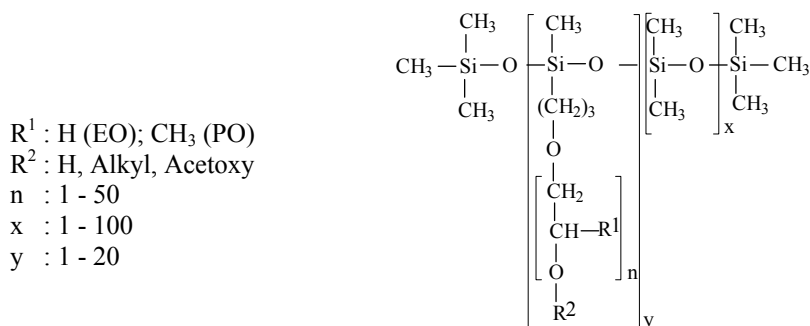
STRUKTOL VP 8028 is a versatile silicone stabiliser for use in pentane-blown rigid polyurethane foams. STRUKTOL VP 8028 is used in appliance applications, production of PUR and PIR panels and for a range of other rigid polyurethane applications. STRUKTOL VP 8028 is successfully applied in applications that require good flowability, e.g. pipe insulation and hot water boiler production.

### Chemical and Physical Properties

According to its chemical structure STRUKTOL VP 8028 is a polyether modified polydimethyl siloxane resistant to hydrolysis.

At room temperature STRUKTOL VP 8028 is a clear to slightly turbid, colourless to slightly brownish liquid of medium viscosity.

### General chemical structure:



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]	900
Density at 25°C	[kg/m <sup>3</sup> ]	app. 1038
Flash point (DIN EN 22719) [°C]		> 100
Refractive index at 25°C		1.4425

## Technical Properties

STRUKTOL VP 8028 was specifically designed to give polyurethane foams excellent flowability, improved demould properties and very good insulation properties. For this reason STRUKTOL VP 8028 is especially recommended for systems used in appliance application, pipe insulation or other applications where excellent flowability is needed. It is mainly focused on systems using cyclopentane as blowing agents, however, is also successfully applied in systems using c/i-, n/i- or n-pentane as blowing agents.

Based on its extraordinary performance, the use of STRUKTOL VP 8028 can result in improved  $\lambda$ -value, reduced flow factor and reduced post expansion of the foam. It offers good miscibility with most of the common polyol systems.

STRUKTOL VP 8028 can be successfully used in pentane blown continuous panel production. STRUKTOL VP 8028 shows very satisfying emulsification properties and is thus very well suited for use in the production of n-pentane blown polyurethane panels. The use of STRUKTOL VP 8028 can lead to improved insulation properties of the foam.

For the production of PUR panels with maximum requirements on flame retardant properties we recommend our product STRUKSILON 8026. Additionally, for use in pentane-blown PIR-foam we recommend our products STRUKTOL VP 8031 and STRUKTOL VP 8032.

## Recommended Dosage

Usually, STRUKTOL VP 8028 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.

## Product Safety and Handling

STRUKTOL VP 8028 is not a hazardous material for the purposes of hazardous materials regulation.

Further information regarding safety, toxicology, special properties of the product, transport and storage is given in the safety data sheet.

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## **Packaging, Storage and Transport**

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)

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. 10/2005

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