

Technical Information

Polymer OR 501

Base polymer for non-staining sealants and adhesives

Polymer OR 501 is a special silicone polymer for non-staining condensation-curing silicone formulations. This polymer is recommended in particular for low-modulus sealants and adhesives when the use of silicone oils as plasticizers is not advised, e. g. in natural stone applications.

Technical data (no specification)

Property	Unit	
Viscosity (25 °C)	[mPas]	50 000
Appearance		clear, colourless liquid
Refractive index n_D^{20}		1.405
Density (20 °C)	[g/cm ³]	0.98

Application

Especially the field of marble and natural stone applications involves the risk of silicone oils being absorbed by these fine-pored substrates ("blotting-paper effect"). This produces discolorations in the edge zones of the glued joint which may be worsened by adhering dust. This effect can be avoided by using Polymer OR 501.

Polymer OR 501 is also suitable for applications in the electronics industry as free silicone oils may have a negative effect here as well.

In formulations, Polymer OR 501 substitutes the base polymer (hydroxyl-terminated siloxane) and the silicone plasticizer. Curing of these polymers is achieved by using common condensation-crosslinkers such as Cross-linker OX.

Packaging and Storage

Packaging	950 kg IBC PE
Shelf life	12 months in originally sealed containers
Storage	Dry, up to 86 °F (30°C) in sealed containers, do not permanently expose to intensive sunlight

Registration status

The ingredients of Polymer OR 501 products are listed in the following chemical inventories:

EINECS/ELINCS, TSCA, DSL, ENCS, AICS, TCCL, PICCS, IECSC, New Zealand, TCSI

Further information is available on request.

Safety and Handling

The rules and regulations for the handling and use of chemicals have to be observed. Please refer to the Material Safety Data Sheet for further details.

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